


```
Db 241 CCAACCCGAGAGAGATCTTACCTGAGAGAGATCTACCTGAGAGAGATCTTACCT 300
Qy 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAATTAGAGATCTTACTACTGTT 360
Db 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAATTAGAGATCTTACTACTGTT 360
Qy 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATTAATGCCACAGGAGCAAAAGAGAGAT 420
Db 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATTAATGCCACAGGAGCAAAAGAGAGAT 420
Qy 421 GACCAAGTCAATTGGGCTATGAGAGGCAACCGGCTGAGCCCGGGGTGTCCCAAGCTGC 480
Db 421 GACCAAGTCAATTGGGCTATGAGAGGCAACCGGCTGAGCCCGGGGTGTCCCAAGCTGC 480
Qy 481 GCGGGCCGCTTCCAGTCCCGGCTGAGATATCCGCCCCCACTGCGGCTTCTGCGCGGC 540
Db 481 GCGGGCCGCTTCCAGTCCCGGCTGAGATATCCGCCCCCACTGCGGCTTCTGCGCGGC 540
Qy 541 GCGGGCCGCTTCCAGTCCCGGCTTCCAGTCCCGGCTTCCAGTCCCGGCTTCCAGTCCG 600
Db 541 GCGGGCCGCTTCCAGTCCCGGCTTCCAGTCCCGGCTTCCAGTCCCGGCTTCCAGTCCG 600
Qy 601 AACCAATGSCACAGTGTGCACTGACCTGCTCTGAGCTAGAGATGCTGTGCTGCC 660
Db 601 AACCAATGSCACAGTGTGCACTGACCTGCTCTGAGCTAGAGATGCTGTGCTGCC 660
Qy 661 GGGGCGGAGTACCGGGCTCTGACGCTGCACTGCACTGGGGGGCTGCAAGTGTCCGGGC 720
Db 661 GGGGCGGAGTACCGGGCTCTGACGCTGCACTGCACTGGGGGGCTGCAAGTGTCCGGGC 720
Qy 721 TCGAGACACATGTGTGAGAGGCGCACGCTTCCCTGCGGAGATCAGGTGGTTCACTCAGC 780
Db 721 TCGAGACACATGTGTGAGAGGCGCACGCTTCCCTGCGGAGATCAGGTGGTTCACTCAGC 780
Qy 781 ACCGCTTTTCCAGAGTGTGACAGAGGCTTGGGGCGCCGAGAGGCTGCGGCTGTTGAC 840
Db 781 ACCGCTTTTCCAGAGTGTGACAGAGGCTTGGGGCGCCGAGAGGCTGCGGCTGTTGAC 840
Qy 841 GCGCTTCTGAGAGAGGCGCCGAGAAACAGTGTCTAGAGCACTGCTGTCTGCTGG 900
Db 841 GCGCTTCTGAGAGAGGCGCCGAGAAACAGTGTCTAGAGCACTGCTGTCTGCTGG 900
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGTCCAGAGCTGAGCACTATCTGCACTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGTCCAGAGCTGAGCACTATCTGCACTC 960
Qy 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Db 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Qy 1021 GCGCAAGGCTGATCTGAGCTGTTTACAGAGACAGTGTGCTAGTGTGTAAGAGCTC 1080
Db 1021 GCGCAAGGCTGATCTGAGCTGTTTACAGAGACAGTGTGCTAGTGTGTAAGAGCTC 1080
Qy 1081 CACACCTCTCTGACACCTCTGTGGGACCTGTGTACTCTCGCTACAGCTGAATCTCCGA 1140
Db 1081 CACACCTCTCTGACACCTCTGTGGGACCTGTGTACTCTCGCTACAGCTGAATCTCCGA 1140
Qy 1141 GCGAGCAGACCTTTGATATGGGAGATGATGAGGCTCTTCTGCTGAGATGAGCAAGC 1200
Db 1141 GCGAGCAGACCTTTGATATGGGAGATGATGAGGCTCTTCTGCTGAGATGAGCAAGC 1200
Qy 1201 AGTCTCTGAGGCTGAGAGCAGTCCAGTGAATCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
Db 1201 AGTCTCTGAGGCTGAGAGCAGTCCAGTGAATCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
Qy 1261 GCGCTGCTTCTGCTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
Db 1261 GCGCTGCTTCTGCTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
Qy 1321 AGGCAAGTCAATGAGGAGAAACAAAGAGGCTGAGACTACCGCCAGAGAGGTAGCCAG 1380
Db 1321 AGGCAAGTCAATGAGGAGAAACAAAGAGGCTGAGACTACCGCCAGAGAGGTAGCCAG 1380
Qy 1381 AGGCAAGTCAATGAGGAGAAACAAAGAGGCTGAGACTACCGCCAGAGAGGTAGCCAG 1380
Db 1381 AGGCAAGTCAATGAGGAGAAACAAAGAGGCTGAGACTACCGCCAGAGAGGTAGCCAG 1380
```

```
Qy 1381 ACTGAGCCTTAGAGGCTGAGTCTTGGAGAAATGTAGAAACCCAGAGGATCTGAGGG 1440
Db 1381 ACTGAGCCTTAGAGGCTGAGTCTTGGAGAAATGTAGAAACCCAGAGGATCTGAGGG 1440
Qy 1441 GAGGCGGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db 1441 GAGGCGGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Qy 1501 TTTTAAATTAATATTTATTAAT 1522
Db 1501 TTTTAAATTAATATTTATTAAT 1522

RESULT 2
AR081119 1522 bp DNA linear PAT 31-AUG-2000
LOCUS AR081119
DEFINITION Sequence 1 from patent US 5972353.
ACCESSION AR081119
VERSION AR081119.1 GI:10007847
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zayada,J., Pastorekova,S. and Pastorek,J.
TITLE MN proteins, polypeptides, fusion proteins and fusion polypeptides
JOURNAL Patent: US 5972353-A 1 26-OCT-1999;
FEATURES
source
1..1522
/molecule="unknown"
/mol_type="unassigned DNA"

ORIGIN
Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTCAAGCCGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
Db 1 ACAGTCAAGCCGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
Qy 61 CTGCTCAAGGCTCACTGTCGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 61 CTGCTCAAGGCTCACTGTCGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Qy 121 CCCAGAGGTTCCCGGATGACAGAGATTCCTGCTGAGAGAGGCTCTTCTGGGAA 180
Db 121 CCCAGAGGTTCCCGGATGACAGAGATTCCTGCTGAGAGAGGCTCTTCTGGGAA 180
Qy 181 GATGACCACTGGGCGAGAGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Db 181 GATGACCACTGGGCGAGAGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Qy 241 CCAACCCGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTACT 300
Db 241 CCAACCCGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTACT 300
Qy 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAATTAGAGATCTTACTACTGTT 360
Db 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAATTAGAGATCTTACTACTGTT 360
Qy 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATTAATGCCACAGGAGCAAAAGAGAGAT 420
Db 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATTAATGCCACAGGAGCAAAAGAGAGAT 420
Qy 421 GACCAAGTCAATTGGGCTATGAGAGGCAACCGGCTGAGCCCGGGGTGTCCCAAGCTGC 480
Db 421 GACCAAGTCAATTGGGCTATGAGAGGCAACCGGCTGAGCCCGGGGTGTCCCAAGCTGC 480
Qy 481 GCGGGCCGCTTCCAGTCCCGGCTGAGATATCCGCCCCCACTGCGGCTTCTGCGCGGC 540
Db 481 GCGGGCCGCTTCCAGTCCCGGCTGAGATATCCGCCCCCACTGCGGCTTCTGCGCGGC 540
```

Qy	541	CTGGCCCCCTGGAACTCTCGGCTTTCAGGCTCCCGCGCTCCGAGAACTGGCGCTGGCG	600
Db	541	CTGGCCCCCTGGAACTCTCGGCTTTCAGGCTCCCGCGCTCCGAGAACTGGCGCTGGCG	600
Qy	601	AACAATGGCCACAGTGTGCACTGACCCTCTGCTCTGGGCTAGAGATGGCTCTGGGTCCC	660
Db	601	AACAATGGCCACAGTGTGCACTGACCCTCTGCTCTGGGCTAGAGATGGCTCTGGGTCCC	660
Qy	661	GGGCGGGAGATACCGGGCTTCTGACGTGCATCTGCACTGGGGGGGCTGCAAGTGGTCCGGGC	720
Db	661	GGGCGGGAGATACCGGGCTTCTGACGTGCATCTGCACTGGGGGGGCTGCAAGTGGTCCGGGC	720
Qy	721	TCGAGACACACTGTGGAAGGACCACGGTTTCCCTGCAGCAATGCAAGTGGTTACCTCAGC	780
Db	721	TCGAGACACACTGTGGAAGGACCACGGTTTCCCTGCAGCAATGCAAGTGGTTACCTCAGC	780
Qy	781	ACCGCCCTTTCGAGAGTGGACGAGGCTTTGGGGCGCCCGGAGGCGCTGGCGGTGTGGGC	840
Db	781	ACCGCCCTTTCGAGAGTGGACGAGGCTTTGGGGCGCCCGGAGGCGCTGGCGGTGTGGGC	840
Qy	841	GCCTTTCTGAGAGAGGGCCCCGGGAAAGAAAACAATGCCATAGACAATGTGCTGTGGCTTG	900
Db	841	GCCTTTCTGAGAGAGGGCCCCGGGAAAGAAAACAATGCCATAGACAATGTGCTGTGGCTTG	900
Qy	901	GAAGAAATCGCTGAGGAAAGGCTCAGAGACTCAGAGTCCCAAGACTGGACATATCTGCATC	960
Db	901	GAAGAAATCGCTGAGGAAAGGCTCAGAGACTCAGAGTCCCAAGACTGGACATATCTGCATC	960
Qy	961	CTGCCCTCTGACTTGCAGCCGCTGACTTCCAAATAGAGGGGTCTGTGACTACACGCCCTGT	1020
Db	961	CTGCCCTCTGACTTGCAGCCGCTGACTTCCAAATAGAGGGGTCTGTGACTACACGCCCTGT	1020
Qy	1021	GCCCAAGGATGCATCTGCACTGTGTGTTAAACAAGACATGATGCTAGAGCTTAAGCAAGCTC	1080
Db	1021	GCCCAAGGATGCATCTGCACTGTGTGTTAAACAAGACATGATGCTAGAGCTTAAGCAAGCTC	1080
Qy	1081	CACACCCTCTCTGACACCCCTGTGGGGACCTGGGTGACTCTGGGCTACAGCTGAACCTTCGA	1140
Db	1081	CACACCCTCTCTGACACCCCTGTGGGGACCTGGGTGACTCTGGGCTACAGCTGAACCTTCGA	1140
Qy	1141	GCGACGCAAGCTTTGATATGGCGAGATGATTTAGAGCGCTCTTTCCTGCTGGAAGTGCACGC	1200
Db	1141	GCGACGCAAGCTTTGATATGGCGAGATGATTTAGAGCGCTCTTTCCTGCTGGAAGTGCACGC	1200
Qy	1201	AGTCTCGGGGCTGCTGAGCGAGTCCAGCTGAATTCCTGCTTGGCTGGCTGTGTGACATCTTA	1260
Db	1201	AGTCTCGGGGCTGCTGAGCGAGTCCAGCTGAATTCCTGCTTGGCTGGCTGTGTGACATCTTA	1260
Qy	1261	GCCCTGATTTTTGGCCTCTTTTGTCTGTCAACAAGGTGGCGTTCCTTGTGACAGATGAGA	1320
Db	1261	GCCCTGATTTTTGGCCTCTTTTGTCTGTCAACAAGGTGGCGTTCCTTGTGACAGATGAGA	1320
Qy	1321	AGGCAAGCACAGAAAGGGGAAACCAAAGGGGTGTGAGCTACCGGCCACAGAGATGCGGAG	1380
Db	1321	AGGCAAGCACAGAAAGGGGAAACCAAAGGGGTGTGAGCTACCGGCCACAGAGATGCGGAG	1380
Qy	1381	ACTGAGGCTTAGAGGCTGATCTTGAGAAATGTGAGAGCCAGCCAGGAGCATCTGAGGG	1440
Db	1381	ACTGAGGCTTAGAGGCTGATCTTGAGAAATGTGAGAGCCAGCCAGGAGCATCTGAGGG	1440
Qy	1441	GGAGCGGTAATCTGCTCTGTCTGTCTAATTATGCACTTCTTTTAATGCGCAAGAAATT	1500
Db	1441	GGAGCGGTAATCTGCTCTGTCTGTCTAATTATGCACTTCTTTTAATGCGCAAGAAATT	1500
Qy	1501	TTTTAAATTAATATTTAATAAT 1522	
Db	1501	TTTTAAATTAATATTTAATAAT 1522	

DEFINITION	Sequence 1 from patent US 5981711.
ACCESSION	AR065336
VERSION	AR065336.1
KEYWORDS	GI:10012085
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 1522)
TITLE	Zavada, J., Pastorekova, S. and Pastorek, J
JOURNAL	MN-specific antibodies and hybridomas
FEATURES	Patent: US 5981711-A 1 09-NOV-1999; Location/Qualifiers

```

/mol_type="unassigned DNA"
ORIGIN

```

Query Match	100.0%	Score 1522;	DB 6;	Length 1522;
Best Local Similarity	100.0%	Pred. No.0;		
Matches 1522;	0;	Mismatches	0;	Gaps 0;

OY	1	CAAGTCACCGCATGGCTCCCTGAGCCCAACCCCTGGCTCCCTGTTGATCCGGGC	60
Db	1	ACAGTCACCGCATGGCTCCCTGAGCCCAACCCCTGGCTCCCTGTTGATCCGGGC	60
OY	61	CTGTCTCAGGACCTCACTGTGCATCTGTCTGTCACTGTCTTCTGATGCTGTCCAT	120
Db	61	CTGTCTCAGGACCTCACTGTGCATCTGTCTGTCACTGTCTTCTGATGCTGTCCAT	120
OY	121	CCCCAGAGGTGGCCCCGGATGCAAGAGGATTTCCCCCTTGGAGAGAGGCTCTTCTGGGGAA	180
Db	121	CCCCAGAGGTGGCCCCGGATGCAAGAGGATTTCCCCCTTGGAGAGAGGCTCTTCTGGGGAA	180
OY	181	GATGACCCCACTGGGCGAGAGAGGATCTGCCCACTGAAGAGATTTCAACCAAGAGAGGAGAT	240
Db	181	GATGACCCCACTGGGCGAGAGAGGATCTGCCCACTGAAGAGATTTCAACCAAGAGAGAGGAT	240
OY	241	CCACCCCGAGAGAGAGGATCTACTTGGAGAGAGGATCTTACTGGAGAGAGGATCTTACTT	300
Db	241	CCACCCCGAGAGAGAGGATCTACTTGGAGAGAGGATCTTACTGGAGAGAGGATCTTACTT	300
OY	301	GAAGTTAAGCTTAATTCAGAAAGAGGGCTCCCTGAAGTTAGAGATTTTACTTACTGTT	360
Db	301	GAAGTTAAGCTTAATTCAGAAAGAGGGCTCCCTGAAGTTAGAGATTTTACTTACTGTT	360
OY	361	GAGGCTCTCTGAGATCTCAAGAAACCCCAAGATTAATGCCCAAGGGAACAAGAGGAGAT	420
Db	361	GAGGCTCTCTGAGATCTCAAGAAACCCCAAGATTAATGCCCAAGGGAACAAGAGGAGAT	420
OY	421	GACCAAGTCAATTGGCGCTATGAGAGGCGACCCGCCCTTGAGCCCGGGTGTCCCAAGCTGC	480
Db	421	GACCAAGTCAATTGGCGCTATGAGAGGCGACCCGCCCTTGAGCCCGGGTGTCCCAAGCTGC	480
OY	481	GCGGGCGCGCTTCCAGTCCCCCGGTGAATTCGGCCCCCAGCTGGCGGCTTCTGCCCCGGGC	540
Db	481	GCGGGCGCGCTTCCAGTCCCCCGGTGAATTCGGCCCCCAGCTGGCGGCTTCTGCCCCGGGC	540
OY	541	CTGCGCCCCCTGGAATCTCTGGGGCTTCAGAGTCCCGCGGCTCCCAAGATGAGCTGCGGC	600
Db	541	CTGCGCCCCCTGGAATCTCTGGGGCTTCAGAGTCCCGCGGCTCCCAAGATGAGCTGCGGC	600
OY	601	AACAATGGCCACAAGTGTCAACTGACCTTGCTCTTGAGGCTTAGAGATGGCTCTGAGTCCC	660
Db	601	AACAATGGCCACAAGTGTCAACTGACCTTGCTCTTGAGGCTTAGAGATGGCTCTGAGTCCC	660
OY	661	GGGGGGAGATACCGGGCTCTGCAAGCTGCAATCTGCACTGGAGGGGCTGCAGGTGTCTCGGGC	720
Db	661	GGGGGGAGATACCGGGCTCTGCAAGCTGCAATCTGCACTGGAGGGGCTGCAGGTGTCTCGGGC	720
OY	721	TCGGAGCACTGTGGAAGGCCACCGTGTCCCTGCGCGAGATGCAAGTGGTGTCACTCAAG	780
Db	721	TCGGAGCACTGTGGAAGGCCACCGTGTCCCTGCGCGAGATGCAAGTGGTGTCACTCAAG	780

QY 781 ACCGCTTTGCGAGATTGACGAGGCTTGGGGCGCCCGGAGAGGCTTGCCGTGTTGGCC 840
DB 781 ACCGCTTTGCGAGATTGACGAGGCTTGGGGCGCCCGGAGAGGCTTGCCGTGTTGGCC 840
QY 841 GCTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCAATTGCTGTCTGCTGG 900
DB 841 GCTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCAATTGCTGTCTGCTGG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGGACTGAGACATATCTGACATC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGGACTGAGACATATCTGACATC 960
QY 961 CTGGCTCTGAGCTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
DB 961 CTGGCTCTGAGCTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
QY 1021 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTATGCTGAGTCTTAAGAGCTTC 1080
DB 1021 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTATGCTGAGTCTTAAGAGCTTC 1080
QY 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTTGAGCTACAGCTGAATCTCCGA 1140
DB 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTTGAGCTACAGCTGAATCTCCGA 1140
QY 1141 GCGAGCGAGCTTTGAAATGGGAGAGTGAATTGAGGCTCTCTTCCGCTGAGATGAGACAGC 1200
DB 1141 GCGAGCGAGCTTTGAAATGGGAGAGTGAATTGAGGCTCTCTTCCGCTGAGATGAGACAGC 1200
QY 1201 AGTCTCGGGCTGTGAGCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
DB 1201 AGTCTCGGGCTGTGAGCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
QY 1261 GCGCTGTGTTTGGCTCTCTTTTGTCTGCTACCAAGGCTGCTGCTGCTGCTGCTGCTGCT 1320
DB 1261 GCGCTGTGTTTGGCTCTCTTTTGTCTGCTACCAAGGCTGCTGCTGCTGCTGCTGCTGCT 1320
QY 1321 AGCGAGCAGAGAGGGGAAACAAAGGGGGTGTGAGCTACCGCCGAGAGAGTACCGGAG 1380
DB 1321 AGCGAGCAGAGAGGGGAAACAAAGGGGGTGTGAGCTACCGCCGAGAGAGTACCGGAG 1380
QY 1381 ACTGAGGCTTGAAGGCTGTGATCTTGAAGATGTGAAAGCCAGCCAGAGAGCATCTGAGG 1440
DB 1381 ACTGAGGCTTGAAGGCTGTGATCTTGAAGATGTGAAAGCCAGCCAGAGAGCATCTGAGG 1440
QY 1441 GAGAGCGGTAACTGTCTGTCTGCTCATATATGCCATCTCTTTAACTGCGCAAGAAAT 1500
DB 1441 GAGAGCGGTAACTGTCTGTCTGCTCATATATGCCATCTCTTTAACTGCGCAAGAAAT 1500
QY 1501 TTTTAAATTAATATTTATAT 1522
DB 1501 TTTTAAATTAATATTTATAT 1522

RESULT 4
LOCUS AR088064 1522 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 1 from patent US 5989838.
ACCESSION AR088064
VERSION AR088064.1 GI:10014827
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Immunological methods of detecting MN proteins and MN polypeptides
JOURNAL Patent: US 5989838-A 1 23-NOV-1999;
FEATURES
source location/Qualifiers
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAGAGCAGCCGATAGGCTCCCTGTGCCCCAGCCCTGGCTCCCTGTGTTATCCGGCC 60
DB 1 AAGAGCAGCCGATAGGCTCCCTGTGCCCCAGCCCTGGCTCCCTGTGTTATCCGGCC 60
QY 61 CTGTCTCAGGCTCTCACTGTGCAATCTGCTGTCTGCTGCTTCTGATGCTGTCCAT 120
DB 61 CTGTCTCAGGCTCTCACTGTGCAATCTGCTGTCTGCTGCTTCTGATGCTGTCCAT 120
QY 121 CCCCAGAGTTGGCCCCGAGATGCAAGAGATTTCCCTTGGAGAGAGGCTCTTTGGGGAA 180
DB 121 CCCCAGAGTTGGCCCCGAGATGCAAGAGATTTCCCTTGGAGAGAGGCTCTTTGGGGAA 180
QY 181 GATGACCCACTGGGCGAGAGAGATCTGCTCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
DB 181 GATGACCCACTGGGCGAGAGAGATCTGCTCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTTACTGAGAGAGAGATCTTACTGAGAGAGAGATCTTACT 300
DB 241 CCACCCGAGAGAGAGATCTTACTGAGAGAGAGATCTTACTGAGAGAGAGATCTTACT 300
QY 301 GAAGTTAGCCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTTCTT 360
DB 301 GAAGTTAGCCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTTCTT 360
QY 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATATATGCCACAGAGCAAGAGAGGAT 420
DB 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATATATGCCACAGAGCAAGAGAGGAT 420
QY 421 GACCAAGTCAATGGCGCTATGAGAGGCAACCGCTGAGCCCGGGGTCTCCAGCTTC 480
DB 421 GACCAAGTCAATGGCGCTATGAGAGGCAACCGCTGAGCCCGGGGTCTCCAGCTTC 480
QY 481 GCGGGCGGCTTCAAGTCCCGGGTGAATATCCGCCCAAGCTTCCGCTTCCAGCTTC 540
DB 481 GCGGGCGGCTTCAAGTCCCGGGTGAATATCCGCCCAAGCTTCCGCTTCCAGCTTC 540
QY 541 CTGGGCCCCCTGGAATCTTGTGGGCTTCCAGCTCCCGGCTCCAGAACTGCGCTGGC 600
DB 541 CTGGGCCCCCTGGAATCTTGTGGGCTTCCAGCTCCCGGCTCCAGAACTGCGCTGGC 600
QY 601 AACCAATGSCCAAGTGTGCACTGACCTGCTCTCTGAGATGAGATGCTTGGGTCC 660
DB 601 AACCAATGSCCAAGTGTGCACTGACCTGCTCTCTGAGATGAGATGCTTGGGTCC 660
QY 661 GGGGCGGAGTACCGGGCTCTGCACTGTGATCTGCACTGGGGGCTGCAAGTCTGCGGGC 720
DB 661 GGGGCGGAGTACCGGGCTCTGCACTGTGATCTGCACTGGGGGCTGCAAGTCTGCGGGC 720
QY 721 TCGAGCACTGTGGAAGGCAACGCTTCCCTGCGAGATCAAGTGTTCACCTCAGC 780
DB 721 TCGAGCACTGTGGAAGGCAACGCTTCCCTGCGAGATCAAGTGTTCACCTCAGC 780
QY 781 ACCGCTTTGCGCAAGTGTGAGAGGCTTGGGGGCGCCGAGAGGCTGCGGTGTGGCC 840
DB 781 ACCGCTTTGCGCAAGTGTGAGAGGCTTGGGGGCGCCGAGAGGCTGCGGTGTGGCC 840
QY 841 GCTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCAATTGCTGTCTGCTGG 900
DB 841 GCTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCAATTGCTGTCTGCTGG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGGACTGAGACATATCTGACATC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGGACTGAGACATATCTGACATC 960
QY 961 CTGGCTCTGAGCTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
DB 961 CTGGCTCTGAGCTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
QY 1021 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTATGCTGAGTCTTAAGAGCTTC 1080

DB 1021 GCCCAGGGGTGATCTGAGCTGTGTTAACAGACAGATGCTGAGTCTGAAGCAGCTC 1080
QY 1081 CACACCTCTCTGACACCCCTGTGGGGAAGCTGTGATCTCTGGTACAGTGAATCTTCCGA 1140
DB 1081 CACACCTCTCTGACACCCCTGTGGGGAAGCTGTGATCTCTGGTACAGTGAATCTTCCGA 1140
QY 1141 GCGACGACGCTTTGATGAGGAGATGATGATGAGGCTCTCTGCTGCTGAGTGAAGCAGC 1200
DB 1141 GCGACGACGCTTTGATGAGGAGATGATGATGAGGCTCTCTGCTGCTGAGTGAAGCAGC 1200
QY 1201 AGTCTCTGGGCTGTGAGCAGCTGATCCAGTGAATCTCTGCTGCTGCTGATCTGA 1260
DB 1201 AGTCTCTGGGCTGTGAGCAGCTGATCCAGTGAATCTCTGCTGCTGCTGATCTGA 1260
QY 1261 GCGCTGTGTTTGGGCTCTCTTTTGTGTGACACAGGTGCGCTTCTTGTGAGATGAGA 1320
DB 1261 GCGCTGTGTTTGGGCTCTCTTTTGTGTGACACAGGTGCGCTTCTTGTGAGATGAGA 1320
QY 1321 AGGACGACAGAGAGGGAACCAAGAGGGGTGTGAGCTACCGCCAGCAGAGGAGCCGAG 1380
DB 1321 AGGACGACAGAGAGGGAACCAAGAGGGGTGTGAGCTACCGCCAGCAGAGGAGCCGAG 1380
QY 1381 ACTGAGCCTAGAGGCTGATCTTGTGAGATGTGAGAGCCAGCCAGAGGCACTGAGG 1440
DB 1381 ACTGAGCCTAGAGGCTGATCTTGTGAGATGTGAGAGCCAGCCAGAGGCACTGAGG 1440
QY 1441 GAGAGCGGTGATCTCTCTCTGCTCATTTAGCCACTTCTTTTAACTGCCAAGAAAT 1500
DB 1441 GAGAGCGGTGATCTCTCTCTGCTCATTTAGCCACTTCTTTTAACTGCCAAGAAAT 1500
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 5
ARI04223
LOCUS ARI04223 1522 bp DNA linear PART 14-FEB-2001
DEFINITION Sequence 1 from patent US 6093548.
ACCESSION ARI04223
VERSION ARI04223.1 GI:12816931
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Detection and quantitation of MN-specific antibodies
JOURNAL Patent: US 6093548-A 1 25-JUL-2000;
FEATURES
source location/Qualifiers
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGTCAGCCGATGAGTCCCTGTGAGCCAGCCCTGAGTCCCTGTGATCCCGGCC 60
DB 1 ACAGTCAGCCGATGAGTCCCTGTGAGCCAGCCCTGAGTCCCTGTGATCCCGGCC 60
QY 61 CCTGTCTCAGGCTCACTGTGCACTGTGCTGTCACTGTCTTCTGATGCTGTCCAT 120
DB 61 CCTGTCTCAGGCTCACTGTGCACTGTGCTGTCACTGTCTTCTGATGCTGTCCAT 120
QY 121 CCCCAAGGTTTCCCGGATGAGAGGATTTCCCTTTGGAGAGAGGCTCTTCTGGGGA 180
DB 121 CCCCAAGGTTTCCCGGATGAGAGGATTTCCCTTTGGAGAGAGGCTCTTCTGGGGA 180
QY 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACGAGAGAGAGAT 240

DB 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACGAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATTTACTTGAAGAGAGATTTACTTGGAGAGAGAGATTTACT 300
DB 241 CCACCCGAGAGAGAGATTTACTTGAAGAGAGATTTACTTGGAGAGAGAGATTTACT 300
QY 301 GAAATTAAAGCTTAATACAGAAAGAGGCTCCCTGAAGTTAGAGATTTACTACTGTT 360
DB 301 GAAATTAAAGCTTAATACAGAAAGAGGCTCCCTGAAGTTAGAGATTTACTACTGTT 360
QY 361 GAGGCTCTGAGATCTTCAAGAACCCAGAAATTAATGCCACAGGACAAAGAGAGAT 420
DB 361 GAGGCTCTGAGATCTTCAAGAACCCAGAAATTAATGCCACAGGACAAAGAGAGAT 420
QY 421 GACAGAGTCAATTTGGGCTGATATGAGGCGACCCGCTTGGCCCGGCTGCTCCAGCTTC 480
DB 421 GACAGAGTCAATTTGGGCTGATATGAGGCGACCCGCTTGGCCCGGCTGCTCCAGCTTC 480
QY 481 GCGGGCGGCTTCAATGCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCCCGGCC 540
DB 481 GCGGGCGGCTTCAATGCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCCCGGCC 540
QY 541 CTGCGCCCCCTGAACTCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 600
DB 541 CTGCGCCCCCTGAACTCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 600
QY 601 AACATGACACAGTGTGCAATGACCTGTCTCTGAGGCTGAGATGCTCTGAGTCCC 660
DB 601 AACATGACACAGTGTGCAATGACCTGTCTCTGAGGCTGAGATGCTCTGAGTCCC 660
QY 661 GGGCGGAGATACGGGCTCTGAGCTGATCTGCACTGAGGAGGAGCTGAGAGTCTGCGGCC 720
DB 661 GGGCGGAGATACGGGCTCTGAGCTGATCTGCACTGAGGAGGAGCTGAGAGTCTGCGGCC 720
QY 721 TCGAGCACACTGTGAAAGCCACCGTTTCCCTGCGAGATTCACGTGTGTTCACTGAC 780
DB 721 TCGAGCACACTGTGAAAGCCACCGTTTCCCTGCGAGATTCACGTGTGTTCACTGAC 780
QY 781 ACCGCTTTTCCAGAGTTGACAGAGCTTGGGGGCGCCGGAGAGGCTGCGCTGTGGCC 840
DB 781 ACCGCTTTTCCAGAGTTGACAGAGCTTGGGGGCGCCGGAGAGGCTGCGCTGTGGCC 840
QY 841 GCCTTCTGAGAGAGGCGCCGAGAAACAGTGCCTATGACAGTGTGCTCTGCGCTG 900
DB 841 GCCTTCTGAGAGAGGCGCCGAGAAACAGTGCCTATGACAGTGTGCTCTGCGCTG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGCTGAGACATATCTGCACTC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGCTGAGACATATCTGCACTC 960
QY 961 CTGCGCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTGTGACTACCGGCTGT 1020
DB 961 CTGCGCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTGTGACTACCGGCTGT 1020
QY 1021 GCCCAGGGGTGATCTGAGCTGTGTTAACAGACAGATGCTGAGTCTGAAGAGCTC 1080
DB 1021 GCCCAGGGGTGATCTGAGCTGTGTTAACAGACAGATGCTGAGTCTGAAGAGCTC 1080
QY 1081 CACACCTCTCTGACACCCCTGTGGGGAAGCTGTGATCTCTGGTACAGTGAATCTTCCGA 1140
DB 1081 CACACCTCTCTGACACCCCTGTGGGGAAGCTGTGATCTCTGGTACAGTGAATCTTCCGA 1140
QY 1141 GCGACGACGCTTTGATGAGGAGATGATGATGAGGCTCTCTGCTGCTGAGTGAAGCAGC 1200
DB 1141 GCGACGACGCTTTGATGAGGAGATGATGATGAGGCTCTCTGCTGCTGAGTGAAGCAGC 1200
QY 1201 AGTCTCTGGGCTGTGAGCAGCTGATCCAGTGAATCTCTGCTGCTGCTGATCTGA 1260
DB 1201 AGTCTCTGGGCTGTGAGCAGCTGATCCAGTGAATCTCTGCTGCTGCTGATCTGA 1260
QY 1261 GCGCTGTGTTTGGGCTCTCTTTTGTGTGACACAGGTGCGCTTCTTGTGAGATGAGA 1320

Db 1261 GCCCTGTTTGGCTCCTTTTGTGTCACGAGGTCGCTTCTTGTGCATGAGA 1320
Qy 1321 AGGCACACAGAGGGGAAACAAAGGGGTGTGAGCTACCGCCACAGAGTAGCCGAG 1380
Db 1321 AGGCACACAGAGGGGAAACAAAGGGGTGTGAGCTACCGCCACAGAGTAGCCGAG 1380
Qy 1381 ACTGAGGCTTAAGGCTGTGATCTTGGAGAAATGTGAAGCCAGCCAGAGCATCTGAGG 1440
Db 1381 ACTGAGGCTTAAGGCTGTGATCTTGGAGAAATGTGAAGCCAGCCAGAGCATCTGAGG 1440
Qy 1441 GGAGCCGCTAAGTCTGCTGCTGCTCATTAATGCACTTCTTTAACTGCCAAGAAAT 1500
Db 1441 GGAGCCGCTAAGTCTGCTGCTGCTCATTAATGCACTTCTTTAACTGCCAAGAAAT 1500
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 6
ARI43487 1522 bp DNA linear PAT 08-AUG-2001
LOCUS ARI43487
DEFINITION Sequence 1 from patent US 6204370.
ACCESSION ARI43487
VERSION ARI43487.1 GI:15104773
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE MN gene and protein
JOURNAL Patent: US 6204370-A 1 20-MAR-2001;
FEATURES
source 1..1522
Location/Qualifiers
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAGAGCAGCCGATGGCTCCCTGTGCCCCAGCCCTGCTCCCTGTGTGATCCCGGC 60
Db 1 AAGAGCAGCCGATGGCTCCCTGTGCCCCAGCCCTGCTCCCTGTGTGATCCCGGC 60
Qy 61 CCTGCTCAGGCTCACTGTGCAACTGTGCTGTCACTGCTTCTGATGCTGTCAAT 120
Db 61 CCTGCTCAGGCTCACTGTGCAACTGTGCTGTCACTGCTTCTGATGCTGTCAAT 120
Qy 121 CCCGAGAGTTGCCCGAGTGCAGAGAGATTCCTCTTGGAGAGAGCTTTCTGAGGAA 180
Db 121 CCCGAGAGTTGCCCGAGTGCAGAGAGATTCCTCTTGGAGAGAGCTTTCTGAGGAA 180
Qy 181 GATGACCCACTGGGAGAGAGATCTGCCAATGGAAGAGATTCAACCCAGAGAGAGAT 240
Db 181 GATGACCCACTGGGAGAGAGATCTGCCAATGGAAGAGATTCAACCCAGAGAGAGAT 240
Qy 241 CCAACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACT 300
Db 241 CCAACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACT 300
Qy 301 GAAATTAAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATCTACTACTGT 360
Db 301 GAAATTAAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATCTACTACTGT 360
Qy 361 GAGGCTCTGAGAGATCTCTCAAGAACCCAGATTAATGCCACAGGAGCAAAAGAGAT 420
Db 361 GAGGCTCTGAGAGATCTCTCAAGAACCCAGATTAATGCCACAGGAGCAAAAGAGAT 420
Qy 421 GACGAGATCATGGCGCTATGAGAGCGACCCGCTGTGCGCGGCTGTCCCACTGC 480
Db 421 GACGAGATCATGGCGCTATGAGAGCGACCCGCTGTGCGCGGCTGTCCCACTGC 480

Db 421 GACGAGATCATGGCGCTATGAGAGCGACCCGCTGTGCGCGGCTGTCCCACTGC 480
Qy 481 GCGGCGCTTCCAGTCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCCGCGC 540
Db 481 GCGGCGCTTCCAGTCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCCGCGC 540
Qy 541 CTGCGCCCTTGGAACTCTTGGGCTTCCAGTCTCCGCGCTCCAGAACTGCGCTGCG 600
Db 541 CTGCGCCCTTGGAACTCTTGGGCTTCCAGTCTCCGCGCTCCAGAACTGCGCTGCG 600
Qy 601 AACATGAGCAAGTGTGCACTGACCTGCTCTGCGGTGAGAGATGGCTCTGGGTCC 660
Db 601 AACATGAGCAAGTGTGCACTGACCTGCTCTGCGGTGAGAGATGGCTCTGGGTCC 660
Qy 661 GCGCGGAGTACCGGCTCTGAGCTGATCTGCACTGCGGCGCTGCAAGTCTGCGGCG 720
Db 661 GCGCGGAGTACCGGCTCTGAGCTGATCTGCACTGCGGCGCTGCAAGTCTGCGGCG 720
Qy 721 TCGAGCACTGTGAAAGCCACCGTTCCCTGCGAGATCCAGTGTCTACTCAGC 780
Db 721 TCGAGCACTGTGAAAGCCACCGTTCCCTGCGAGATCCAGTGTCTACTCAGC 780
Qy 781 ACCGCTTGTGCAAGTGTGAGAGGCTTGGGCGCCCGGAGAGCTGCGGCTGTGCGC 840
Db 781 ACCGCTTGTGCAAGTGTGAGAGGCTTGGGCGCCCGGAGAGCTGCGGCTGTGCGC 840
Qy 841 GCTTTCTGAGAGAGGCGCCGAGAAACAGTGTCTATGAGAGATTGCTCTGCTTG 900
Db 841 GCTTTCTGAGAGAGGCGCCGAGAAACAGTGTCTATGAGAGATTGCTCTGCTTG 900
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTAGGTCCAGAGACTGAGACATCTGCACTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTAGGTCCAGAGACTGAGACATCTGCACTC 960
Qy 961 CTGCGCTCTGACTTCAAGCGCTACTTCCATATGAGGAGCTCTGACTACACCGCCGT 1020
Db 961 CTGCGCTCTGACTTCAAGCGCTACTTCCATATGAGGAGCTCTGACTACACCGCCGT 1020
Qy 1021 GCCAGAGTGTCTATGAGTGTGTTAACAGACAGTATGCTGATGCTTAAGAGCTC 1080
Db 1021 GCCAGAGTGTCTATGAGTGTGTTAACAGACAGTATGCTGATGCTTAAGAGCTC 1080
Qy 1081 CACACCTCTGTGACACCTGTGAGGAGCTGTGTACTCTGCGCTACAGCTGAACCTTCGA 1140
Db 1081 CACACCTCTGTGACACCTGTGAGGAGCTGTGTACTCTGCGCTACAGCTGAACCTTCGA 1140
Qy 1141 GCGAGCGAGCTTGAATGAGCGAGATGAGGCTCTCTCCCTGCTGAGTGAACAGC 1200
Db 1141 GCGAGCGAGCTTGAATGAGCGAGATGAGGCTCTCTCCCTGCTGAGTGAACAGC 1200
Qy 1201 AGTCTGGGCTGTGAGCCAGTCACTGAAATCTGCGCTGCTGCTGAGATCTCTTA 1260
Db 1201 AGTCTGGGCTGTGAGCCAGTCACTGAAATCTGCGCTGCTGCTGAGATCTCTTA 1260
Qy 1261 GCCCGGTTTTGGCTCTCTTTTGTGTGACAGAGCGTGGGTCTCTTGTGCAATAGA 1320
Db 1261 GCCCGGTTTTGGCTCTCTTTTGTGTGACAGAGCGTGGGTCTCTTGTGCAATAGA 1320
Qy 1321 AGGCAGACAGAGAGGAGCAAAAGGGGTGTGAGTACCGCCACAGAGAGTGAAGCGAG 1380
Db 1321 AGGCAGACAGAGAGGAGCAAAAGGGGTGTGAGTACCGCCACAGAGAGTGAAGCGAG 1380
Qy 1381 ACTGAGCTTAAGGCTGTGATCTTGGAGAAATGTGAAGAGCCAGCCAGAGCATCTGAGG 1440
Db 1381 ACTGAGCTTAAGGCTGTGATCTTGGAGAAATGTGAAGAGCCAGCCAGAGCATCTGAGG 1440
Qy 1441 GGAAGCGTAACTGTCTGCTGCTCATTAATGCACTTCTTTAACTGCCAAGAAAT 1500
Db 1441 GGAAGCGTAACTGTCTGCTGCTCATTAATGCACTTCTTTAACTGCCAAGAAAT 1500
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 7
LOCUS AR171392 1522 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 1 from patent US 6297041.
ACCESSION AR171392
VERSION AR171392.1 GI:17910342
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada, J., Pastorekova, S. and Pastorek, J.
TITLE MN gene and protein
JOURNAL Patent: US 6297041-A 1 02-OCT-2001;
FEATURES
source
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACGTCAAGCCGATGGCTCCCTGTGCCCCAGCCCTGGCTCCCTGTGTTGATCCCGGCC 60
DB 1 AAGTCAGCCGATGGCTCCCTGTGCCCCAGCCCTGGCTCCCTGTGTTGATCCCGGCC 60
QY 61 CTGTCTCAGAGCTCACTGTGCAACTGTCTGTCACTGTCTGTCTGTGATCCGTCAT 120
DB 61 CTGTCTCAGAGCTCACTGTGCAACTGTCTGTCACTGTCTGTCTGTGATCCGTCAT 120
QY 121 CCCCAAGGTTTCCCGGATGCAAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAA 180
DB 121 CCCCAAGGTTTCCCGGATGCAAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAA 180
QY 121 CCCCAAGGTTTCCCGGATGCAAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAA 180
DB 121 CCCCAAGGTTTCCCGGATGCAAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAA 180
QY 181 GATGACCCCTGTGGGAGAGAGATTCGCTGAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 181 GATGACCCCTGTGGGAGAGAGATTCGCTGAGTGAAGAGATTCACCCAGAGAGAGAT 240
QY 191 GATGACCCCTGTGGGAGAGAGATTCGCTGAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 191 GATGACCCCTGTGGGAGAGAGATTCGCTGAGTGAAGAGATTCACCCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATTCACCTGAGAGAGAGATTCACCTGAGAGAGAGATTCACCT 300
DB 241 CCACCCGAGAGAGAGATTCACCTGAGAGAGAGATTCACCTGAGAGAGAGATTCACCT 300
QY 241 CCACCCGAGAGAGAGATTCACCTGAGAGAGAGATTCACCTGAGAGAGAGATTCACCT 300
DB 241 CCACCCGAGAGAGAGATTCACCTGAGAGAGAGATTCACCTGAGAGAGAGATTCACCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAGTTAAGAGATTCACCTACTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAGTTAAGAGATTCACCTACTGTT 360
QY 361 GAGGCTGCTGAGATCTCAAGAACCCAGAAATATGCCCACAGGACAAAGAGGAGAT 420
DB 361 GAGGCTGCTGAGATCTCAAGAACCCAGAAATATGCCCACAGGACAAAGAGGAGAT 420
QY 361 GAGGCTGCTGAGATCTCAAGAACCCAGAAATATGCCCACAGGACAAAGAGGAGAT 420
DB 361 GAGGCTGCTGAGATCTCAAGAACCCAGAAATATGCCCACAGGACAAAGAGGAGAT 420
QY 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCGCCCTGGCCCGGAGTCCCCAGGCTGC 480
DB 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCGCCCTGGCCCGGAGTCCCCAGGCTGC 480
QY 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCAGCTGCGCTTCTGCGCGGCC 540
DB 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCAGCTGCGCTTCTGCGCGGCC 540
QY 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCAGCTGCGCTTCTGCGCGGCC 540
DB 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCAGCTGCGCTTCTGCGCGGCC 540
QY 541 CTGCGCGCTTGAAGTCTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGGCGCTGCGCC 600
DB 541 CTGCGCGCTTGAAGTCTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGGCGCTGCGCC 600
QY 601 AACCAATGGCAGAGTGTGCAATGACCTGCGCTCTGGGCTGAGATGAGTGGCTGCGCC 660
DB 601 AACCAATGGCAGAGTGTGCAATGACCTGCGCTCTGGGCTGAGATGAGTGGCTGCGCC 660
QY 661 GGGCGGAGATACCGGCTCTGCAAGCTGTGCACTGGGAGGAGCTGCAAGTGTGCGGAGC 720
DB 661 GGGCGGAGATACCGGCTCTGCAAGCTGTGCACTGGGAGGAGCTGCAAGTGTGCGGAGC 720

QY 721 TCGAGACACTGTGAAAGGACCAGCTTCCCTGCGAGATCCAGTGTGACCTCAGC 780
DB 721 TCGAGACACTGTGAAAGGACCAGCTTCCCTGCGAGATCCAGTGTGACCTCAGC 780
QY 781 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGAGCGCCCGGAGAGGCTGGGCTGGTGGCC 840
DB 781 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGAGCGCCCGGAGAGGCTGGGCTGGTGGCC 840
QY 841 GCGCTTTCTGAGAGAGGCGCCGGAAGAAACATGCTGATGAGCAATGCTGTGCTGGCTTG 900
DB 841 GCGCTTTCTGAGAGAGGCGCCGGAAGAAACATGCTGATGAGCAATGCTGTGCTGGCTTG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGCTGAGTCCAGAGCTGAGCAATCTGACATC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAGAGCTGAGTCCAGAGCTGAGCAATCTGACATC 960
QY 961 CTGCGCTTGAATCAGCGCTACTTCCAAATATGAGGAGTCTGATCAACCGCCCTGT 1020
DB 961 CTGCGCTTGAATCAGCGCTACTTCCAAATATGAGGAGTCTGATCAACCGCCCTGT 1020
QY 1021 GCGGAGGCTGATCTGCACTGTGTTTAAACAGACATGATGCTGATGAGCTGACAGCTC 1080
DB 1021 GCGGAGGCTGATCTGCACTGTGTTTAAACAGACATGATGCTGATGAGCTGACAGCTC 1080
QY 1081 CACACCTCTGACAGCCCTGAGGAGACCTGAGTGACTCTGAGCTACAGCTGAATTCGGA 1140
DB 1081 CACACCTCTGACAGCCCTGAGGAGACCTGAGTGACTCTGAGCTACAGCTGAATTCGGA 1140
QY 1141 GCGAGCAGCCCTTGAATGAGGAGATGATGAGGCTCTCTTCCTGCTGAGATGACAGC 1200
DB 1141 GCGAGCAGCCCTTGAATGAGGAGATGATGAGGCTCTCTTCCTGCTGAGATGACAGC 1200
QY 1201 AGTCTCGGAGCTGAGAGCACTGCACTGAATTCCTGCTGAGCTGCTGCTGATCTTA 1260
DB 1201 AGTCTCGGAGCTGAGAGCACTGCACTGAATTCCTGCTGAGCTGCTGCTGATCTTA 1260
QY 1261 GCGCTGTTTGGGCTCTCTCTGCTGACAGAGTGGGCTCTGCTGAGATGAGA 1320
DB 1261 GCGCTGTTTGGGCTCTCTCTGCTGACAGAGTGGGCTCTCTGCTGAGATGAGA 1320
QY 1321 AGGACGACAGAAAGGAGAAACAAAGGAGGCTGAGCTACCGCCAGAGAGTACCGAG 1380
DB 1321 AGGACGACAGAAAGGAGAAACAAAGGAGGCTGAGCTACCGCCAGAGAGTACCGAG 1380
QY 1381 ACTGAGCTTGAAGCTGAGCTTGAAGATGTGAGAGCCAGCCAGAGGCAATCTGAGGG 1440
DB 1381 ACTGAGCTTGAAGCTGAGCTTGAAGATGTGAGAGCCAGCCAGAGGCAATCTGAGGG 1440
QY 1441 GAGGCGGTTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 GAGGCGGTTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1501 TTTTAAATTAATTTTAAAT 1522

RESULT 8
AR171563 1522 bp DNA linear PAT 17-DEC-2001
LOCUS AR171563
DEFINITION Sequence 1 from patent US 6297051.
ACCESSION AR171563
VERSION AR171563.1 GI:17910513
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada, J., Pastorekova, S. and Pastorek, J.
TITLE MN gene and protein
JOURNAL Patent: US 6297051-A 1 02-OCT-2001;
FEATURES
Location/Qualifiers

source 1.1522
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ORIGIN

1 ACAGTACGCGATGAGTCCCTGTCGCGCCAGCCCTGAGCTCTGTGATCCGAGC 60
1 ACAGTACGCGATGAGTCCCTGTCGCGCCAGCCCTGAGCTCTGTGATCCGAGC 60
61 CCTGCTCCAGGCTCTCATCTGTGCAATCTGTCTGTCACTGTCTGTGATCCGAGC 120
61 CCTGCTCCAGGCTCTCATCTGTGCAATCTGTCTGTCACTGTCTGTGATCCGAGC 120
121 CCCGAGAGGTTGCCCCGAGATGAGAGAGATCCCTTGGAGAGAGGCTCTTGGAGGA 180
121 CCCGAGAGGTTGCCCCGAGATGAGAGAGATCCCTTGGAGAGAGGCTCTTGGAGGA 180
181 GATGACCCACTGAGCGAGAGAGATCTGCGCAGTGAAGAGATTCACCCAGAGAGAGAT 240
181 GATGACCCACTGAGCGAGAGAGATCTGCGCAGTGAAGAGATTCACCCAGAGAGAGAT 240
241 CCACTCCGAGAGAGAGATCTTACTGAGAGAGAGATCTTACTGAGAGAGAGATCTTACT 300
241 CCACTCCGAGAGAGAGATCTTACTGAGAGAGAGATCTTACTGAGAGAGAGATCTTACT 300
301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTTCTGTT 360
301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTTCTGTT 360
361 GAGGCTCTGAGATCTCTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAT 420
361 GAGGCTCTGAGATCTCTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAT 420
421 GAGCGAGATCTTGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
421 GAGCGAGATCTTGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
481 GCGGAGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGGCTTCTGCGCGGCG 540
481 GCGGAGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGGCTTCTGCGCGGCG 540
541 CTGCGCGCTTGAATCTCTGAGGCTTCCAGCTTCCGCGCTTCCAGAACTGCGCTGCGC 600
541 CTGCGCGCTTGAATCTCTGAGGCTTCCAGCTTCCGCGCTTCCAGAACTGCGCTGCGC 600
601 AACATGCGCAGATGATGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
601 AACATGCGCAGATGATGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
661 GGGCGGAGATACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTCTCGGAGC 720
661 GGGCGGAGATACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTCTCGGAGC 720
721 TCGGAGCACACTGTGAGAGGCGACGTTTCCCTGCGAGATCACTGCTGCTGCTGCTGCT 780
721 TCGGAGCACACTGTGAGAGGCGACGTTTCCCTGCGAGATCACTGCTGCTGCTGCTGCT 780
781 ACCGCTTTGCGAGAGTTGAGAGAGGCTTGGGAGGCGCGGAGAGGCTGCGTGTGGCC 840
781 ACCGCTTTGCGAGAGTTGAGAGAGGCTTGGGAGGCGCGGAGAGGCTGCGTGTGGCC 840
841 GCTTTTCTGAGAGAGGCGCGGAGAGAAACAGTGTCTTGAAGAGATCTGCTGCTGCTG 900
841 GCTTTTCTGAGAGAGGCGCGGAGAGAAACAGTGTCTTGAAGAGATCTGCTGCTGCTG 900
901 GAGAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCTCAAGAGCTGAGACATATCTGACTC 960
901 GAGAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCTCAAGAGCTGAGACATATCTGACTC 960

QY 961 CTGCGCTTGAATGAGCGGCTACTTCCATATGAGGCGCTCTGACTTACACCGCCTGT 1020
DB 961 CTGCGCTTGAATGAGCGGCTACTTCCATATGAGGCGCTCTGACTTACACCGCCTGT 1020
QY 1021 GCCGAGGATGATCTGAGCTGTGTTTAAACAGACAGAGATGCTGAGGCTTAAAGAGCTC 1080
DB 1021 GCCGAGGATGATCTGAGCTGTGTTTAAACAGACAGAGATGCTGAGGCTTAAAGAGCTC 1080
QY 1081 CACACCTCTCTGACACCTGTGAGGAGCTGTGATCTCTGAGCTTACAGTAACTTCCGA 1140
DB 1081 CACACCTCTCTGACACCTGTGAGGAGCTGTGATCTCTGAGCTTACAGTAACTTCCGA 1140
QY 1141 GCGAGCAGGCTTTGAATGAGGCGAGTATGAGGCTCTCTTCCCTGCTGAGAGTGAAGC 1200
DB 1141 GCGAGCAGGCTTTGAATGAGGCGAGTATGAGGCTCTCTTCCCTGCTGAGAGTGAAGC 1200
QY 1201 AGTCTGAGGCTGAGGAGCTGAGCTGAGTGAATTCGAGCTGAGGCTGAGTGAAGTGA 1260
DB 1201 AGTCTGAGGCTGAGGAGCTGAGCTGAGTGAATTCGAGCTGAGGCTGAGTGAAGTGA 1260
QY 1261 GCGCTGATTTTGGCTCTCTTTTGTCTGTCACAGCGTGGCTTCTTGTGCAATGAGA 1320
DB 1261 GCGCTGATTTTGGCTCTCTTTTGTCTGTCACAGCGTGGCTTCTTGTGCAATGAGA 1320
QY 1321 AGCGAGCACAAGAGGAGAACCAAGGAGGCTGAGCTTACCGCCAGAGAGTGAAGCAG 1380
DB 1321 AGCGAGCACAAGAGGAGAACCAAGGAGGCTGAGCTTACCGCCAGAGAGTGAAGCAG 1380
QY 1381 ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAGAGAGCAGAGAGAGGATCTGAGG 1440
DB 1381 ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAGAGAGCAGAGAGAGGATCTGAGG 1440
QY 1441 GAGCGGCTTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 GAGCGGCTTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 TTTTAAATTAATTAATTAATTAAT 1522
DB 1501 TTTTAAATTAATTAATTAATTAAT 1522

RESULT 9
BD243152
LOCUS BD243152 1522 bp DNA linear PAT 17-JUL-2003
DEFINITION MN gene and protein.
ACCESSION BD243152
VERSION BD243152.1 GI:33052922
KEYWORDS JP 2002528085-A/1.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1522)
Zavada,J., Pastorekova,S. and Pastorek,J.
MN gene and protein
Patent: JP 2002528085-A 1 03-SEP-2002;
JOURNAL INSTITUTE OF VIROLOGY
OS Homo sapiens (human)
PN JP 2002528085-A/1
PD 03-SEP-2002
PF 22-OCT-1999 JP 2000578465
PR 23-OCT-1998 US 09/177776,23-OCT-1998 US 09/178115 P1
JAN ZAVADA,SILVIA PASTOREKOVA,JAKOMIR PASTOREK PC
C12N15/09,A61K39/00,A61K39/395,A61K48/00,A61P35/00, PC
C07K14/47,
PC C12Q1/02,G01N33/566// (C12Q1/02,C12R1.91),C12N15/00,A61K37/02
CC MN gene and protein
FH key Location/Qualifiers
FT CDS (13)..(1389)
FT mat_peptide (124)..(1389).
FT Location/Qualifiers
1.1522
/organism="Homo sapiens"

ORIGIN

/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AAGAGCAGCCGATGCTCCCTGTCGACCCGACCCCTGCTCCCTGTTGATCCCGGCC 60
1 AAGAGCAGCCGATGCTCCCTGTCGACCCGACCCCTGCTCCCTGTTGATCCCGGCC 60
1 AAGAGCAGCCGATGCTCCCTGTCGACCCGACCCCTGCTCCCTGTTGATCCCGGCC 60
61 CCTGCTCAGGCTCCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
61 CCTGCTCAGGCTCCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
61 CCTGCTCAGGCTCCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
121 CCCCAAGAGGTTGCCCCGATGCAAGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGAA 180
121 CCCCAAGAGGTTGCCCCGATGCAAGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGAA 180
181 GATGACCCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
181 GATGACCCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
181 GATGACCCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
241 CCACCCGAGAGAGAGATCTGCTGAGAGAGAGATCTGCTGAGAGAGAGATCTGCTG 300
241 CCACCCGAGAGAGAGATCTGCTGAGAGAGAGATCTGCTGAGAGAGAGATCTGCTG 300
241 CCACCCGAGAGAGAGATCTGCTGAGAGAGAGATCTGCTGAGAGAGAGATCTGCTG 300
301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAGATTAGAGATCTGCTGCTGCT 360
301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAGATTAGAGATCTGCTGCTGCTG 360
301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAGATTAGAGATCTGCTGCTGCTG 360
361 GAGGCTCCTGAGAGATCTGCAAGAACCCAGATTAATGCCCAAGAGAGAGAGAT 420
361 GAGGCTCCTGAGAGATCTGCAAGAACCCAGATTAATGCCCAAGAGAGAGAGAT 420
361 GAGGCTCCTGAGAGATCTGCAAGAACCCAGATTAATGCCCAAGAGAGAGAGAT 420
421 GACCAAGATCATTGGGCTGATGAGAGGCGACCCGCTGAGCCGAGGCTGCTCCAGCCTG 480
421 GACCAAGATCATTGGGCTGATGAGAGGCGACCCGCTGAGCCGAGGCTGCTCCAGCCTG 480
421 GACCAAGATCATTGGGCTGATGAGAGGCGACCCGCTGAGCCGAGGCTGCTCCAGCCTG 480
481 GGGGGGCGCTTCCAGTCCCGGTGATATCCCGCCCAAGCTGCGCTCTTCTGCGCGCC 540
481 GGGGGGCGCTTCCAGTCCCGGTGATATCCCGCCCAAGCTGCGCTCTTCTGCGCGCC 540
481 GGGGGGCGCTTCCAGTCCCGGTGATATCCCGCCCAAGCTGCGCTCTTCTGCGCGCC 540
541 CTGCGCGCTTCCAGTCCCGGTGATATCCCGCCCAAGCTGCGCTCTTCTGCGCGCC 600
541 CTGCGCGCTTCCAGTCCCGGTGATATCCCGCCCAAGCTGCGCTCTTCTGCGCGCC 600
541 CTGCGCGCTTCCAGTCCCGGTGATATCCCGCCCAAGCTGCGCTCTTCTGCGCGCC 600
601 AACCAATGGCCACAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
601 AACCAATGGCCACAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
601 AACCAATGGCCACAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
661 GGGGGGAGATCAGGCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
661 GGGGGGAGATCAGGCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
661 GGGGGGAGATCAGGCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
721 TCGAGACACACTGTGTGAAGGCCACCTGCTTCCCTGCGAGATCCACTGTGTTCACTCAC 780
721 TCGAGACACACTGTGTGAAGGCCACCTGCTTCCCTGCGAGATCCACTGTGTTCACTCAC 780
721 TCGAGACACACTGTGTGAAGGCCACCTGCTTCCCTGCGAGATCCACTGTGTTCACTCAC 780
781 ACCGCTTTCAGAGTTGACAGAGGCTTGGGGGCGCGCGAGAGGCTTGGCGCTGGTGGGC 840
781 ACCGCTTTCAGAGTTGACAGAGGCTTGGGGGCGCGCGAGAGGCTTGGCGCTGGTGGGC 840
781 ACCGCTTTCAGAGTTGACAGAGGCTTGGGGGCGCGCGAGAGGCTTGGCGCTGGTGGGC 840
841 GCTTTCTGAGAGAGGCGCGAGAGAAACAGTGCCTATGAGAGCTTGTCTGCTGCTG 900
841 GCTTTCTGAGAGAGGCGCGAGAGAAACAGTGCCTATGAGAGCTTGTCTGCTGCTG 900
841 GCTTTCTGAGAGAGGCGCGAGAGAAACAGTGCCTATGAGAGCTTGTCTGCTGCTG 900
901 GAAAGAAATGCTGAGAGAGGCTTCAAGACTCAGGTCTCCAGAGCTGAGCACTATCTGACATC 960
901 GAAAGAAATGCTGAGAGAGGCTTCAAGACTCAGGTCTCCAGAGCTGAGCACTATCTGACATC 960
901 GAAAGAAATGCTGAGAGAGGCTTCAAGACTCAGGTCTCCAGAGCTGAGCACTATCTGACATC 960
961 CTGCGCTTGAATCAGCGGCTACTTCAATATGAGGGGTCTCTGACTACACCGCGCTGT 1020

Db 961 CTGCGCTTGAATCAGCGGCTACTTCAATATGAGGGGTCTCTGACTACACCGCGCTGT 1020

Qy 1021 GCCCAGGCTGATCTGCACTGCTGTTTAAACAGACAGTATGCTGATGCTTAAGCAGCTC 1080

Db 1021 GCCCAGGCTGATCTGCACTGCTGTTTAAACAGACAGTATGCTGATGCTTAAGCAGCTC 1080

Qy 1081 CACACCTCTGCAACCCCTGAGGAGACTGAGTACTCTGAGCTCAGCTGAACCTTCGGA 1140

Db 1081 CACACCTCTGCAACCCCTGAGGAGACTGAGTACTCTGAGCTCAGCTGAACCTTCGGA 1140

Qy 1141 GCGAGCAGCCTTTGATATGAGGAGATGATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200

Db 1141 GCGAGCAGCCTTTGATATGAGGAGATGATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200

Qy 1201 AGTCTCGGCTGCTGAGGAGCACTGCACTGATTTCTGCTGCTGCTGCTGCTGCTGCT 1260

Db 1201 AGTCTCGGCTGCTGAGGAGCACTGCACTGATTTCTGCTGCTGCTGCTGCTGCTGCT 1260

Qy 1261 GCGCTGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320

Db 1261 GCGCTGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320

Qy 1321 AGGCAACACAGAGGAGGAAACCAAGGAGGCTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380

Db 1321 AGGCAACACAGAGGAGGAAACCAAGGAGGCTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380

Qy 1381 ACTGAGCTTGAAGGCTGATTTTGAAGATGTAAGAACCCAGAGAGGCTGAGAGG 1440

Db 1381 ACTGAGCTTGAAGGCTGATTTTGAAGATGTAAGAACCCAGAGAGGCTGAGAGG 1440

Qy 1441 GGAAGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500

Db 1441 GGAAGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500

Qy 1501 TTTTAAATTAATTAATTAAT 1522

Db 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 10
CQ834035
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
1
Aistle, J.H., Boardman, L.A., Bugart, L.J., Bureess, C.C., Catino, T.J.,
Dwivedi, P., Huntress, M., Johnson, K.A., Lewis, M.E., Maimonis, P.J.,
Myerow, S.H., Brown-Shimer, S.L., Thiagalingam, A., Thibodeau, S.N. and
Molino, G.A.
Detection methods using T1P1 for colon cancer diagnosis
Patent: EP 1439393-A 71 21-JUL-2004;
Bayer Healthcare LLC (US); MAYO FOUNDATION FOR MEDICAL EDUCATION
AND RESEARCH (US)
FEATURES
source
1.1552
location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AAGAGCAGCCGATGCTCCCTGTCGACCCGACCCCTGCTCCCTGTTGATCCCGGCC 60

```

Db      31  AAGTACAGCGAGATGGCTCCCTGTGTCCCGAGCCCTGTGCTCCCTGTGTATCCCGGCC 90
Qy      61  CCTGTCTCAGGCTCACTGTGCAACTGTGCTGTCACTGTGCTTCTGATGCTGTTCAT 120
Db      91  CCTGTCTCAGGCTCACTGTGCAACTGTGCTGTCACTGTGCTTCTGATGCTGTTCAT 150
Qy     121  CCCAGAGGTTGGCCCGGAGATGAGAGAGATTCGCCCTTGGGAGAGAGAGCTTCTGTGGGAA 180
Db     151  CCCAGAGGTTGGCCCGGAGATGAGAGAGATTCGCCCTTGGGAGAGAGAGCTTCTGTGGGAA 210
Qy     181  GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 240
Db     211  GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 270
Qy     241  CCAACCGGAGAGAGATCTTACTGTGAAGAGAGATCTTACTGTGAAGAGAGATCTTACT 300
Db     271  CCAACCGGAGAGAGATCTTACTGTGAAGAGAGATCTTACTGTGAAGAGAGATCTTACT 330
Qy     301  GAAATTAAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTACTT 360
Db     331  GAAATTAAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTACTT 390
Qy     361  GAGGCTCTGAGAGATCTTCAAGAACCCAGATATATGCCACAGGACAAAGAGAGAT 420
Db     391  GAGGCTCTGAGAGATCTTCAAGAACCCAGATATATGCCACAGGACAAAGAGAGAT 450
Qy     421  GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCTGTGGCCCGGGTGTCCAGCTTGC 480
Db     451  GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCTGTGGCCCGGGTGTCCAGCTTGC 510
Qy     481  GGCGGCGGCTTCCAGTCCCGGAGATATCCCGGCGGCTGTGGCCCGGCTTGTGGCCGCGC 540
Db     511  GGCGGCGGCTTCCAGTCCCGGAGATATCCCGGCGGCTGTGGCCCGGCTTGTGGCCGCGC 570
Qy     541  CTGCGGCGGCTGTGAGACTCTGTGGCTTTCAGCTCCGCGCTCCAGAGCTGGCGCTGCGC 600
Db     571  CTGCGGCGGCTGTGAGACTCTGTGGCTTTCAGCTCCGCGCTCCAGAGCTGGCGCTGCGC 630
Qy     601  AACCATGGGCAAGTGTGCACTGACCCCTGCTCTGTGGCTGAGAGATGCTCTGGGTCCC 660
Db     631  AACCATGGGCAAGTGTGCACTGACCCCTGCTCTGTGGCTGAGAGATGCTCTGGGTCCC 690
Qy     661  GGCGGCGGAGTACCGGCGCTGTGAGCTGTGCACTGTGGGCGGCTGAGGTGTCCGCGGC 720
Db     691  GGCGGCGGAGTACCGGCGCTGTGAGCTGTGCACTGTGGGCGGCTGAGGTGTCCGCGGC 750
Qy     721  TCGGAGCACACTGTGAGAGGCCACCGCTTCCCTGCCAGATCCACGTGTTCACCTCAGC 780
Db     751  TCGGAGCACACTGTGAGAGGCCACCGCTTCCCTGCCAGATCCACGTGTTCACCTCAGC 810
Qy     781  ACCGCTTTTGGCCAGAGTTGACGAGGCTTGGGCGCGCGGAGAGGCTTGGCGCTGTGGCC 840
Db     811  ACCGCTTTTGGCCAGAGTTGACGAGGCTTGGGCGCGCGGAGAGGCTTGGCGCTGTGGCC 870
Qy     841  GCTTCTTGAAGAGGCGCCGGAAGAAAAGTGTCTATGAGAGATTTGTCTGTGCTGCTG 900
Db     871  GCTTCTTGAAGAGGCGCCGGAAGAAAAGTGTCTATGAGAGATTTGTCTGTGCTGCTG 930
Qy     901  GAAAGAAATGCTGAGAGAGGCTCAGAGACTAGGTCCAGAGCTGAGACATATCTGACATC 960
Db     931  GAAAGAAATGCTGAGAGAGGCTCAGAGACTAGGTCCAGAGCTGAGACATATCTGACATC 990
Qy     961  CTGCTCTGACTTCAAGCCGCTTACTTCAATATGAGGGGTCTCTGACTACACCGCGCTGT 1020
Db     991  CTGCTCTGACTTCAAGCCGCTTACTTCAATATGAGGGGTCTCTGACTACACCGCGCTGT 1050
Qy    1021  GCCAAGGAGTGTATCTGACTGTGTTAACAAGACAGATGCTGAGTGAAGAGCTC 1080
Db    1051  GCCAAGGAGTGTATCTGACTGTGTTAACAAGACAGATGCTGAGTGAAGAGCTC 1110
Qy    1081  CACACCTCTCTGACAACCTGTGTGGGAGCTGTGTGACTCTGTGCTGAGTGAAGTTCGGA 1140
Db    1111  CACACCTCTCTGACAACCTGTGTGGGAGCTGTGTGACTCTGTGCTGAGTGAAGTTCGGA 1170

```

```

Qy     1141  GCGAGCCAGCCTTTGAAATGGGAGATGATTGAGGCTCTCTTCCCTGTGAGATGACACG 1200
Db     1171  GCGAGCCAGCCTTTGAAATGGGAGATGATTGAGGCTCTCTTCCCTGTGAGATGACACG 1230
Qy     1201  AGTCTCGGGGCTGTGAGCAGGTGAGTTCCTGCTGGGCTGTGAGATTCCTTA 1260
Db     1231  AGTCTCGGGGCTGTGAGCAGGTGAGTTCCTGCTGGGCTGTGAGATTCCTTA 1290
Qy     1261  GCCCTGTGTTTGGCTCTTCTTGTGCTGACACAGCTGCGCTTCTGTGAGATGAGA 1320
Db     1291  GCCCTGTGTTTGGCTCTTCTTGTGCTGACACAGCTGCGCTTCTGTGAGATGAGA 1350
Qy     1321  AGGCGACACAGAGGGGAAACCAAGGGGTGTGACTACCGCCAGCAGAGGTAGCCGAG 1380
Db     1351  AGGCGACACAGAGGGGAAACCAAGGGGTGTGACTACCGCCAGCAGAGGTAGCCGAG 1410
Qy     1381  ACTGAGGCTTGAAGGCTGGATCTTGGAAATGTGGAAGCCAGCAGAGGCACTGAGGG 1440
Db     1411  ACTGAGGCTTGAAGGCTGGATCTTGGAAATGTGGAAGCCAGCAGAGGCACTGAGGG 1470
Qy     1441  GGAGCGGTAACCTGTCTGTCTCATTTATGCACTTCTTTTAACTGCAAGAAAT 1500
Db     1471  GGAGCGGTAACCTGTCTGTCTCATTTATGCACTTCTTTTAACTGCAAGAAAT 1530
Qy     1501  TTTTAAATTAATATTTAAT 1522
Db     1531  TTTTAAATTAATATTTAAT 1552

RESULT 11
AX330007
LOCUS       AX330007               1552 bp    DNA             linear   PAT 09-JAN-2002
DEFINITION  Sequence 516 from Patent WO0194629.
ACCESSION  AX330007
VERSION    AX330007.1  GI:18102985
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE  1
            Young, P.B., Augustus, M., Carter, K.C., Ehner, R., Endress, G.,
            Horrigan, S., Soppet, D.R. and Weaver, Z.
            Cancer gene determination and therapeutic screening using signature
            gene sets
            Patent: WO 0194629-A 516 13-DEC-2001;
            Avalon Pharmaceuticals (US)
FEATURES   location/Qualifiers
            source          1..1552
                        /organism="Homo sapiens"
                        /mol_type="unassigned DNA"
                        /db_xref="taxon:9606"
ORIGIN
Query Match      100.0%; Score 1522; DB 6; Length 1552;
Beet Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  AAGTCAAGCCGATGAGTCCCTGTGCGCCAGCCCTGCTCTTGTGATCCGCGC 60
Db      31  AAGTCAAGCCGATGAGTCCCTGTGCGCCAGCCCTGCTCTTGTGATCCGCGC 90
Qy      61  CCGTCTCAGGCTCACTGTGCAACTGTGCTGTCACTGTGCTTCTGATGCTGTTCAT 120
Db      91  CCGTCTCAGGCTCACTGTGCAACTGTGCTGTCACTGTGCTTCTGATGCTGTTCAT 150
Qy     121  CCCAGAGGTTGGCCCGGAGATGAGAGATTCGCCCTTGGGAGAGAGCTTCTGTGGGAA 180
Db     151  CCCAGAGGTTGGCCCGGAGATGAGAGATTCGCCCTTGGGAGAGAGCTTCTGTGGGAA 210
Qy     181  GATGACCACTGGGCGAGAGATCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 240

```


Db 211 GATGACCACTGGGCGAGAGGATCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 270
Qy 241 CAACCCGAGAGAGAGATTTACTTGAAGAGAGATCTACCTGAGAGAGAGATCTAACC 300
Db 271 CAACCCGAGAGAGAGATTTACTTGAAGAGAGATCTACCTGAGAGAGAGATCTAACC 330
Qy 301 GAAGTTAAGCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTAACCCTGT 360
Db 331 GAAGTTAAGCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTAACCCTGT 390
Qy 361 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGGACAAAGAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGGACAAAGAGAGAGAT 450
Qy 421 GACCAAGATCATTTGGGCTATGAGAGGACCCGCTTGGGCTCCCGGATGCCCAAGCTTC 480
Db 451 GACCAAGATCATTTGGGCTATGAGAGGACCCGCTTGGGCTCCCGGATGCCCAAGCTTC 510
Qy 481 GGGGCGCGCTTCAAGTCCCGGCTGATATCCGCCCCAGCTGCGGCTTCTGCCCCGCC 540
Db 511 GGGGCGCGCTTCAAGTCCCGGCTGATATCCGCCCCAGCTGCGGCTTCTGCCCCGCC 570
Qy 541 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCGCTGCG 600
Db 571 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCGCTGCG 630
Qy 601 AACATGCGCCACAGTGTGCACTGACCCCTGCTCTGCGGCTTGAAGATGCGCTTGGGCTCC 660
Db 631 AACATGCGCCACAGTGTGCACTGACCCCTGCTCTGCGGCTTGAAGATGCGCTTGGGCTCC 690
Qy 661 GGGCGGAGATACCGGCTCTGAGCTGATCTGACCTGAGGAGGAGCTGAGGAGCTGAGGAG 720
Db 691 GGGCGGAGATACCGGCTCTGAGCTGATCTGACCTGAGGAGGAGCTGAGGAGCTGAGGAG 750
Qy 721 TCGAGCACTGTGAGAGGCAACCGCTTCCCTGCGAGATCCACGTGCTTCACTCACTCACT 780
Db 751 TCGAGCACTGTGAGAGGCAACCGCTTCCCTGCGAGATCCACGTGCTTCACTCACTCACT 810
Qy 781 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGCGCGCGGAGAGGCTTGGGCTTGGGCG 840
Db 811 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGCGCGCGGAGAGGCTTGGGCTTGGGCG 870
Qy 841 GCGTTTCTGAGAGAGGAGCCCGAGAAACAGTGCCTATGAGAGATGCTGCTGCGCTTG 900
Db 871 GCGTTTCTGAGAGAGGAGCCCGAGAAACAGTGCCTATGAGAGATGCTGCTGCGCTTG 930
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGGACTGAGCAATATCTGACTC 960
Db 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGGACTGAGCAATATCTGACTC 990
Qy 961 CTGCGCTCTGACTTCAACCGCTTCAATATGAGGAGTCTTCTGACTTCAACCGCTTGT 1020
Db 991 CTGCGCTCTGACTTCAACCGCTTCAATATGAGGAGTCTTCTGACTTCAACCGCTTGT 1050
Qy 1021 GCGCAAGGATGATCTGAGCTGAGTTTAAACAAGAGATGCTGAGTCTAAGAGACTC 1080
Db 1051 GCGCAAGGATGATCTGAGCTGAGTTTAAACAAGAGATGCTGAGTCTAAGAGACTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGAGGAGCTTGTGACTCTCGGCTACAGCTGAATCTTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGAGGAGCTTGTGACTCTCGGCTACAGCTGAATCTTCCGA 1170
Qy 1141 GCGAGCGAGCTTTGAAATGAGGAGTGAAGGCTCTTCCCTGCTGAGAGTGAAGCTC 1200
Db 1171 GCGAGCGAGCTTTGAAATGAGGAGTGAAGGCTCTTCCCTGCTGAGAGTGAAGCTC 1230
Qy 1201 AGTCCCGGAGCTGAGAGCAAGCTGAGATTCCTGCTGAGGCTGAGTGAATCTTCA 1260
Db 1231 AGTCCCGGAGCTGAGAGCAAGCTGAGATTCCTGCTGAGGCTGAGTGAATCTTCA 1290
Qy 1261 GCGCTGTTTGGCTCTCTTTTGGCTCTCACCAGAGTGCCTTCTTGGAGATGAGA 1320
Db 1291 GCGCTGTTTGGCTCTCTTTTGGCTCTCACCAGAGTGCCTTCTTGGAGATGAGA 1350

Qy 1321 AGGCAAGCAGAAAGGGGAAACCAAGGGGGTGTGAGCTACCGCCAGAGAGGTAGCCGAG 1380
Db 1351 AGGCAAGCAGAAAGGGGAAACCAAGGGGGTGTGAGCTACCGCCAGAGAGGTAGCCGAG 1410
Qy 1381 ACTGAGCCTTAGAGGCTGAGATCTTGAAGATGAGAACCAAGCAGAGGACTTGAAGG 1440
Db 1411 ACTGAGCCTTAGAGGCTGAGATCTTGAAGATGAGAACCAAGCAGAGGACTTGAAGG 1470
Qy 1441 GAGCGCGTAACTGTCTGTCTGCTCATTTAGCCACTTCTTTTAACTGCGCAAGAAAT 1500
Db 1471 GAGCGCGTAACTGTCTGTCTGCTCATTTAGCCACTTCTTTTAACTGCGCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTTATTAAT 1522
Db 1531 TTTTAAATTAATTTATTAAT 1552

RESULT 12
AX332607
LOCUS AX332607 1552 bp DNA linear PAT 09-JUN-2002
DEFINITION Sequence 3116 from Patent WO0194629.
ACCESSION AX332607
VERSION AX332607.1 GI:18123241
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Young, P.E., Augustus, M., Carter, K.C., Ebner, R., Endress, G.,
Horrikan, S., Soppet, D.R. and Weaver, Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets
JOURNAL Patent: WO 0194629-A 3116 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES
source 1. 1552
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTCAGCCGATGAGCTCCCTGTGACCCAGACCCCTGAGCTCCCTGTGATCCCGGCC 60
Db 31 ACAGTCAGCCGATGAGCTCCCTGTGACCCAGACCCCTGAGCTCCCTGTGATCCCGGCC 90
Qy 61 CCTGCTCAAGGCTGACATGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CCTGCTCAAGGCTGACATGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
Qy 121 CCCCAAGGTTGCCCCGATGAGAGAGATTTCCCTTGGAGAGAGCTTCTTGGGGA 180
Db 151 CCCCAAGGTTGCCCCGATGAGAGAGATTTCCCTTGGAGAGAGCTTCTTGGGGA 210
Qy 181 GATGACCACTGGGAGAGAGATCTGCCCAGTGAAGAGATTTCAACCAGAGAGAGAT 240
Db 211 GATGACCACTGGGAGAGAGATCTGCCCAGTGAAGAGATTTCAACCAGAGAGAGAT 270
Qy 241 CAACCCGAGAGAGAGATTTACTTGAAGAGAGATCTAACCCTGAGAGAGAGATCTAACC 300
Db 271 CAACCCGAGAGAGAGATTTACTTGAAGAGAGATCTAACCCTGAGAGAGAGATCTAACC 330
Qy 301 GAAGTTAAGCTTAATCAGAAAGAGGCTCCCTGAAGTTAGAGATCTAACCCTGT 360
Db 331 GAAGTTAAGCTTAATCAGAAAGAGGCTCCCTGAAGTTAGAGATCTAACCCTGT 390
Qy 361 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGGACAAAGAGAGAGAT 420

Db 391 GAGGCTCTGAGATCTCAAGAACCCCAAGATATATGCCACAGGACAAAGAGGAGAT 450
Qy 421 GACCAAGATCATTTGGGCTATGAGAGCGACCCGCTGGCCCGGAGTGTCCCAAGCTGC 480
Db 451 GACCAAGATCATTTGGGCTATGAGAGCGACCCGCTGGCCCGGAGTGTCCCAAGCTGC 510
Qy 481 GGGGGCGGCTTCCAGTCCCGGCTGATATCCGCGCCCACTGGCCGCTTGTCCCGGCG 540
Db 511 GGGGGCGGCTTCCAGTCCCGGCTGATATCCGCGCCCACTGGCCGCTTGTCCCGGCG 570
Qy 541 CTGGCGCCCTGGAGCTCTGGGCTTCCAGTCCCGGCTTCCAGAGATGGGCTGGCGC 600
Db 571 CTGGCGCCCTGGAGCTCTGGGCTTCCAGTCCCGGCTTCCAGAGATGGGCTGGCGC 630
Qy 601 AACCATGGCCACAGTGTGCACTGACCTGCTCTCTGGCTAGAGATGGCTCTGGGTC 660
Db 631 AACCATGGCCACAGTGTGCACTGACCTGCTCTCTGGCTAGAGATGGCTCTGGGTC 690
Qy 661 GGGCGGAGATACCGGCTCTGGAGCTGCACTGCACTGGGGGGCTGCAAGTGTCCGGCG 720
Db 691 GGGCGGAGATACCGGCTCTGGAGCTGCACTGCACTGGGGGGCTGCAAGTGTCCGGCG 750
Qy 721 TCGAGACACACTGTGAGAGGCCACGTTTCCCTGCCAGATCACGTGGTTCACTCAAGC 780
Db 751 TCGAGACACACTGTGAGAGGCCACGTTTCCCTGCCAGATCACGTGGTTCACTCAAGC 810
Qy 781 ACCGCTTTGCCAGAGTTGACAGAGCTTGGGGGCGCCGGAGAGCTGGCCGTGGTGGCC 840
Db 811 ACCGCTTTGCCAGAGTTGACAGAGCTTGGGGGCGCCGGAGAGCTGGCCGTGGTGGCC 870
Qy 841 GCGTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGTGTGTCTGGCTGG 900
Db 871 GCGTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGTGTGTCTGGCTGG 930
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGATGAGACATATCTGACTC 960
Db 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGATGAGACATATCTGACTC 990
Qy 961 CTGGCTCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTGTGACTACACCGCTGT 1020
Db 991 CTGGCTCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTGTGACTACACCGCTGT 1050
Qy 1021 GCCCAGGGGTGATCTGAGACTGTGTTTACAGACAGATGCTGAGTCTAAGAGCTC 1080
Db 1051 GCCCAGGGGTGATCTGAGACTGTGTTTACAGACAGATGCTGAGTCTAAGAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTGTGTGGGACCTGTGTGACTCTGGCTACAGCTGAATCTCCGA 1140
Db 1111 CACACCTCTCTGACACCTGTGTGGGACCTGTGTGACTCTGGCTACAGCTGAATCTCCGA 1170
Qy 1141 GCGAGCGAGCTTGAATGGGGGAGTGAATGAGGCTCTCTGGCTGAGATGAGACAGC 1200
Db 1171 GCGAGCGAGCTTGAATGGGGGAGTGAATGAGGCTCTCTGGCTGAGATGAGACAGC 1230
Qy 1201 AGTCTCTGGGCTGCTGAGCAGTCCAGTGAATTCCTGCTGGCTGCTGAGATCTCTA 1260
Db 1231 AGTCTCTGGGCTGCTGAGCAGTCCAGTGAATTCCTGCTGGCTGCTGAGATCTCTA 1290
Qy 1261 GCGCTGTGTTTTGGCTCTTTTTGTGTGCTACCAAGCTGCGCTCTCTGTGCAATGAGA 1320
Db 1291 GCGCTGTGTTTTGGCTCTTTTTGTGTGCTACCAAGCTGCGCTCTCTGTGCAATGAGA 1350
Qy 1321 AGGCGAGACAGAAAGGGGAAACAAAGGGGTGTGAGCTACCGCCAGAGAGGTATCCAG 1380
Db 1351 AGGCGAGACAGAAAGGGGAAACAAAGGGGTGTGAGCTACCGCCAGAGAGGTATCCAG 1410
Qy 1381 ACTGAGCTAGAGGCTGAGCTTGGAGATGTGAGAGCCAGCCAGAGGCTCTGAGGG 1440
Db 1411 ACTGAGCTAGAGGCTGAGCTTGGAGATGTGAGAGCCAGCCAGAGGCTCTGAGGG 1470
Qy 1441 GAGAGCGGTAATCTGTCTCTGCTCATTTATGCACTTCTTTTAACTGCGCAAGAAAT 1500
Db 1471 GAGAGCGGTAATCTGTCTCTGCTCATTTATGCACTTCTTTTAACTGCGCAAGAAAT 1530

Qy 1501 TTTTAAATTAATATTATTAAT 1522
Db 1531 TTTTAAATTAATATTATTAAT 1552

RESULT 13
AK333244
LOCUS AK333244 1552 bp DNA linear PAT 09-JAN-2002
DEFINITION Sequence 3753 from Patent WO0194629.
ACCESSION AK333244
VERSION AK333244.1 GI:18123878
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Young, P.E., Augustus, M., Carter, K.C., Ebner, R., Endress, G.,
Horrigan, S., Soper, D.R. and Weaver, Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets
JOURNAL Patent: WO 0194629-A 3753 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES
source location/Qualifiers
1..1552
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGTCCAGGCTGATGCTCCCTGTCGCGCCAGGCTGGCTCCCTGTGATCCCGGCG 60
Db 31 ACAAGTCCAGGCTGATGCTCCCTGTCGCGCCAGGCTGGCTCCCTGTGATCCCGGCG 90
Qy 61 CTGTCTCAGGCTTCACTGTGCAACTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CTGTCTCAGGCTTCACTGTGCAACTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
Qy 121 CCCAGAGTGGTCCCGGATGACAGAGATTTCCCTTGGAGAGAGTCTTTTGGGAA 180
Db 151 CCCAGAGTGGTCCCGGATGACAGAGATTTCCCTTGGAGAGAGTCTTTTGGGAA 210
Qy 181 GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 240
Db 211 GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 270
Qy 241 CCACCCGAGAGAGAGATCTACTGTGAGAGAGAGATTTACTGTGAGAGAGATTTACT 300
Db 271 CCACCCGAGAGAGAGATCTACTGTGAGAGAGAGATTTACTGTGAGAGAGATTTACT 330
Qy 301 GAAATTAAAGCTTAATCAAGAAAGAGGAGCTCCCTGAAGTTAGAGATCTACTGTT 360
Db 331 GAAATTAAAGCTTAATCAAGAAAGAGGAGCTCCCTGAAGTTAGAGATCTACTGTT 390
Qy 361 GAGGCTCTGAGATCTCTCAAGAACCCCAAGATATGCCCACAGGACAAAGAGGAGAT 420
Db 391 GAGGCTCTGAGATCTCTCAAGAACCCCAAGATATGCCCACAGGACAAAGAGGAGAT 450
Qy 421 GACCAAGTCAATTTGGCGCTATGAGGCGACCCGCTGGCTCCCGGAGTGTCCCAAGCTGC 480
Db 451 GACCAAGTCAATTTGGCGCTATGAGGCGACCCGCTGGCTCCCGGAGTGTCCCAAGCTGC 510
Qy 481 GGGGGCGGCTTCCAGTCCCGGCTGATATCCGCGCCCACTGGCCGCTTGTCCCGGCG 540
Db 511 GGGGGCGGCTTCCAGTCCCGGCTGATATCCGCGCCCACTGGCCGCTTGTCCCGGCG 570
Qy 541 CTGGCGCCCTGGAGCTCTGGGCTTCCAGTCCCGGCTTCCAGAGATGGCTCTGGGTC 600

Db 751 TGGAGACACACTGTGAGAGCCACCGTTCCCTGCCGAGATCCAGTGGTTCACCTCAGC 810
Qy 781 ACCGCTTTTGGCAGAGTTGACGAGCGCTTGGGGCGCCCGGAGAGCCTGGCCCTGTTGGCC 840
Db 811 ACCGCTTTTGGCAGAGTTGACGAGCGCTTGGGGCGCCCGGAGAGCCTGGCCCTGTTGGCC 870
Qy 841 GCGTTCTGGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGATGTGCTGTGCTGG 900
Db 871 GCGTTCTGGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGATGTGCTGTGCTGG 930
Qy 901 GAGAAATCGCTGAGAGAGAGCTCAGAGACTCAGAGTCCAGAGCTGAGCATATCTGACATC 960
Db 931 GAGAAATCGCTGAGAGAGAGCTCAGAGACTCAGAGTCCAGAGCTGAGCATATCTGACATC 990
Qy 961 CTGCGCTTGTGACTTCAAGCGGCTATCTTCAATATGAGAGAGCTTCTGTGACTACACCGCCCTGT 1020
Db 991 CTGCGCTTGTGACTTCAAGCGGCTATCTTCAATATGAGAGAGCTTCTGTGACTACACCGCCCTGT 1050
Qy 1021 GCCCAGAGGTGATCTGAGCTGTGTTAACAGACAGATGCTGAGTGAAGAGAGCTC 1080
Db 1051 GCCCAGAGGTGATCTGAGCTGTGTTAACAGACAGATGCTGAGTGAAGAGAGCTC 1110
Qy 1081 CACACCTCTGTGACACACCTGTGGAGAGCTGTGACTCTCGCTACAGCTGAGTGAAGTCCGA 1140
Db 1111 CACACCTCTGTGACACACCTGTGGAGAGCTGTGACTCTCGCTACAGCTGAGTGAAGTCCGA 1170
Qy 1141 GCGAGCAGACCTTTGATAGAGAGAGTGAAGTGAAGCTCTCTCTGCTGCTGAGTGAAGC 1200
Db 1171 GCGAGCAGACCTTTGATAGAGAGAGTGAAGTGAAGCTCTCTCTGCTGCTGAGTGAAGC 1230
Qy 1201 AGTCCCTCGAGGCTGCTGAGCAGCTCAGCTGATTCCTGCTGCTGCTGCTGCTGCTGCTG 1260
Db 1231 AGTCCCTCGAGGCTGCTGAGCAGCTCAGCTGATTCCTGCTGCTGCTGCTGCTGCTGCTG 1290
Qy 1261 GCGCTGCTTTTGGCTCTCTTTTGTGCTGCTCACCAGGCTGCTGCTGCTGCTGCTGCTGCTG 1320
Db 1291 GCGCTGCTTTTGGCTCTCTTTTGTGCTGCTCACCAGGCTGCTGCTGCTGCTGCTGCTGCTG 1350
Qy 1321 AGGCGACAG 1380
Db 1351 AGGCGACAG 1410
Qy 1381 ACTGAGCCTGAG 1440
Db 1411 ACTGAGCCTGAG 1470
Qy 1441 GAGAGCGGTAAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
Db 1471 GAGAGCGGTAAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1530
Qy 1501 TTTTAAATAAATAATTTTAAAT 1522
Db 1531 TTTTAAATAAATAATTTTAAAT 1552

RESULT 15
HSMATTUM 1552 bp mRNA linear PRI 10-OCT-1995
DEFINITION H.sapiens Matu MN mRNA for p54/58n protein.
ACCESSION X66839
VERSION X66839.1 GI:1000701
KEYWORDS transmembrane glycoprotein.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 1552)
Pastorek, J.
TITLE Direct Submission
JOURNAL Submitted (11-JUN-1992) J. Pastorek, Institute of Virology, Slovak
Academy of Sciences, Dubravka 9, 842 46 Bratislava, SLOVAK
REPUBLIC
REMARK revised by [3] MAT

REFERENCE 2 (bases 1 to 1552)
AUTHORS Pastorek, J., Pastorekova, S., Callebaut, I., Mornon, J., Zelink, V.,
Opavsky, R., Zatoricova, M., Liao, S., Portetelle, D., Stanbridge, E. J.,
Zavada, J. and Burny, A.
TITLE Cloning and characterization of MN, a human tumor-associated
protein with a domain homologous to carbonic anhydrase and a
putative helix-loop-helix DNA binding segment
JOURNAL Oncogene 9 (10), 2877-2888 (1994)
MEDLINE 9436734
PUBMED 8084592
REFERENCE 3 (bases 1 to 1552)
AUTHORS Pastorek, J.
TITLE Direct Submission
JOURNAL Submitted (19-JUN-1994) J. Pastorek, Institute of Virology, Slovak
Academy of Sciences, Dubravka 9, 842 46 Bratislava, SLOVAK
REPUBLIC
REMARK revised by [4] MAT
AUTHORS Pastorek, J.
TITLE Direct Submission
JOURNAL Submitted (28-SEP-1995) J. Pastorek, Institute of Virology, Slovak
Academy of Sciences, Dubravka 9, 842 46 Bratislava, SLOVAK
REPUBLIC
COMMENT On Sep 29, 1995 this sequence version replaced gi:558593.
FEATURES
source
1..1552
location/Qualifiers
1..1552
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
1..1519
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
source
1..1519
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MN1"
/cell_type="epithelial"
/tissue_type="carcinoma"
/clone_lib="lambda gt11"
43..1422
/gene="Matu MN"
43..1422
/gene="Matu MN"
/codon_start=1
/product="p54/58n"
/protein_id="CAA47315.1"
/db_xref="GI:1000702"
/db_xref="TrEMBL:Q16790"
/translation="MAPLCSPMLPLIPAPAGLTVQLSLILMLPVPORLPRLMQ
EDSLGSGSGEDPLGEEDLPSEEDSPREEDPGEEDLPGEEDLPGEEDLPGEEDLPGEEDLPGEEDLP
EESGLKLEEDLPVEAGDPOEPONNHRDKEGDOSHMRYGDPMPMPVSPACAGRF
OSPDIRPOLAARPCALRPELIGFOLPLPELIRNNGSHVOLTLPGLEMAIGPR
EYRALQHLHKGAGRPSSEHTVGGHPRPAIHVHSTAPARDEALRGEGLAIVLA
AFLESGPENSAYEQILSRLEIAEBSSTOVPELDISALPSDFSRFOEGSLTTP
PCAGVITVFNQMLSAKQLHTLSDTLWGPDSTRLOLFRATQPLNGRYEASFPA
GVDSPPRAAEVQNLNSCLAAGDIALVFGLLFAVTSVAFLVQNRQRHRRGTGGSYR
PAVAETGA"

ORIGIN
Query Match 100.0%; Score 1522; DB 9; Length 1552;
Best local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTCAAGCCGAGAGAGTCCCTGTGCCCCAGAGCCCTGGCTCCCTGTTGATCCCGGCC 60
Db 31 ACAGTCAAGCCGAGAGAGTCCCTGTGCCCCAGAGCCCTGGCTCCCTGTTGATCCCGGCC 90
Qy 61 CTGCTCAGAGCTCAGTGTGCACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CTGCTCAGAGCTCAGTGTGCACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
Qy 121 CCCAGAGGTTGCCCCGAGAGAGAGAGATTTCCCTTTGGAGAGAGGCTCTTGGGGAA 180
Db 151 CCCAGAGGTTGCCCCGAGAGAGAGAGATTTCCCTTTGGAGAGAGGCTCTTGGGGAA 210

QY 181 GATGACCCACTGGCGAGAGGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
DB 211 GATGACCCACTGGCGAGAGGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 270
QY 241 CCAGCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 271 CCAGCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
QY 301 GAAAGTTAAGCCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACTGTT 360
DB 331 GAAAGTTAAGCCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACTGTT 390
QY 361 GAGGCTCTGAGAGATCTCAGAGAACCCAGAAATTAATGCCAGAGAGAGAGAGAGAT 420
DB 391 GAGGCTCTGAGAGATCTCAGAGAACCCAGAAATTAATGCCAGAGAGAGAGAGAT 450
QY 421 GACAGAGATCAATGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 451 GACAGAGATCAATGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 510
QY 481 GGGGGCCGCTTCAAGTCCCGGCTGATATCCGCTCCAGCTGCGGCTTCTGCGCGGCG 540
DB 511 GGGGGCCGCTTCAAGTCCCGGCTGATATCCGCTCCAGCTGCGGCTTCTGCGCGGCG 570
QY 541 CTGGCGCCCTGGAACTCCTGGGCTTCCAGCTCCGCGCTCCAGAACTGGCGCTGGCG 600
DB 571 CTGGCGCCCTGGAACTCCTGGGCTTCCAGCTCCGCGCTCCAGAACTGGCGCTGGCG 630
QY 601 AACAAATGGCCAGATGATGCACTGACCTGCTCCTGGGCTAGAGATGCTCTGGGCTCC 660
DB 631 AACAAATGGCCAGATGATGCACTGACCTGCTCCTGGGCTAGAGATGCTCTGGGCTCC 690
QY 661 GGGCGGAGATACCGGCTCTGCACTGCTGATCTGCACTGGGGGCTGCGAGATGCTCGGCG 720
DB 691 GGGCGGAGATACCGGCTCTGCACTGCTGATCTGCACTGGGGGCTGCGAGATGCTCGGCG 750
QY 721 TCGGAGCACTGAG 780
DB 751 TCGGAGCACTGAG 810
QY 781 ACCGCTTTGCGAGAGATGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 811 ACCGCTTTGCGAGAGATGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 870
QY 841 GCTTTTCTGAG 900
DB 871 GCTTTTCTGAG 930
QY 901 GAAAGAAATGCTGAG 960
DB 931 GAAAGAAATGCTGAG 990
QY 961 CTGGCTCTGAG 1020
DB 991 CTGGCTCTGAG 1050
QY 1021 GCCCAAGGCTGATCTGAG 1080
DB 1051 GCCCAAGGCTGATCTGAG 1110
QY 1081 CACACCTCTGAG 1140
DB 1111 CACACCTCTGAG 1170
QY 1141 GCGAGCGAG 1200
DB 1171 GCGAGCGAG 1230
QY 1201 AGTCTCTGGGCTGAG 1260
DB 1231 AGTCTCTGGGCTGAG 1290
QY 1261 GCGCTGGTCTTCTGAG 1320

DB 1291 GCGCTGGTCTTCTGAG 1350
QY 1321 AGGCGAGCAG 1380
DB 1351 AGGCGAGCAG 1410
QY 1381 ACTGAGCCTGAG 1440
DB 1411 ACTGAGCCTGAG 1470
QY 1441 GAGCGGATACCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT 1500
DB 1471 GAGCGGATACCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT 1530
QY 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1552

Search completed: February 6, 2005, 09:33:20
Job time : 6359 secs


```
Db 721 TCGAGACACACTGTGGAAGCCACCGTTCCCTGCCGAGATCAGGTGTTCACTCAGC 780
Qy 781 ACCGCTTTTCCAGAGTTGACGAGGCTTTGGGGCGCCGGGAGAGGCTGGCCGTGGTGGCC 840
Db 781 ACCGCTTTTCCAGAGTTGACGAGGCTTTGGGGCGCCGGGAGAGGCTGGCCGTGGTGGCC 840
Qy 841 GCTTTCTGAGAGAGGAGCCCGGAGAGAAACAGTGGCTATGAGAGATTGCTGTGCTGGCTGG 900
Db 841 GCTTTCTGAGAGAGGAGCCCGGAGAGAAACAGTGGCTATGAGAGATTGCTGTGCTGGCTGG 900
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGAGCAATCTGAGCTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGAGCAATCTGAGCTC 960
Qy 961 CTGCTCTGAGCTTCAAGCCGCTAATTCTCAATATGAGGGGTCTCTGACTACCCGCTGT 1020
Db 961 CTGCTCTGAGCTTCAAGCCGCTAATTCTCAATATGAGGGGTCTCTGACTACCCGCTGT 1020
Qy 1021 GCCCAGGGTGTGATCTGAGCTGTGTTAACAGACAGTATGAGTGTGCTAAGCAGCTC 1080
Db 1021 GCCCAGGGTGTGATCTGAGCTGTGTTAACAGACAGTATGAGTGTGCTAAGCAGCTC 1080
Qy 1081 CACACCTCTCTGACACCCCTGTGGGAGCCTGTGACTCTCGGCTACAGCTGAATCTTCCA 1140
Db 1081 CACACCTCTCTGACACCCCTGTGGGAGCCTGTGACTCTCGGCTACAGCTGAATCTTCCA 1140
Qy 1141 GCGAGCGAGCCTTTGATATGGGGAGAGTGAAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
Db 1141 GCGAGCGAGCCTTTGATATGGGGAGAGTGAAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
Qy 1201 AGTCCCTGGGGCTGTGAGGCAAGTCAGCTGAATCTCTGCTGGCTGCTGAGTGAATCTTA 1260
Db 1201 AGTCCCTGGGGCTGTGAGGCAAGTCAGCTGAATCTCTGCTGGCTGCTGAGTGAATCTTA 1260
Qy 1261 GGCCTGTGTTTGGCCTCTCTTTTGGTGTGACCAAGGCTGCGTCTCTTGTGAGATGAGA 1320
Db 1261 GGCCTGTGTTTGGCCTCTCTTTTGGTGTGACCAAGGCTGCGTCTCTTGTGAGATGAGA 1320
Qy 1321 AGGCGACACAGAAAGGGAAACAAAGGGGTGTGAGTACCCGCCAGAGAGTACCGGAG 1380
Db 1321 AGGCGACACAGAAAGGGAAACAAAGGGGTGTGAGTACCCGCCAGAGAGTACCGGAG 1380
Qy 1381 ACTGAGGCTTGAAGGCTGTGATCTTGGAGATGTGAGAACCCAGGAGGCAATCTGAGGG 1440
Db 1381 ACTGAGGCTTGAAGGCTGTGATCTTGGAGATGTGAGAACCCAGGAGGCAATCTGAGGG 1440
Qy 1441 GGAGCGGTAACTGTCTGTCTGTGCTCATTAATGCCACTTCTTTTAACTGCGCAAGAAAT 1500
Db 1441 GGAGCGGTAACTGTCTGTCTGTGCTCATTAATGCCACTTCTTTTAACTGCGCAAGAAAT 1500
Qy 1501 TTTTAAATAAATATTATTAAT 1522
Db 1501 TTTTAAATAAATATTATTAAT 1522

RESULT 4
ADG31413
ID ADG31413 standard; cDNA; 1522 BP.
AC ADG31413;
XX
XX 26-FEB-2004 (first entry)
XX
XX Human MN cDNA SeqID 1.
DE
XX
XX human; gene; ss; monoclonal antibody; MN/CA IX; MN; oncogene;
KM carbonic anhydrase 9; CA9; MN/CA9; carbonic anhydrase IX; CA IX; MN/G250;
KM neoplastic tumour; cytostatic; cancer; tumour therapy;
KM anti-tumour vaccine.
XX
XX Homo sapiens.
OS
XX
```

```
PN WO2003100029-A2.
XX
PD 04-DEC-2003.
XX
PF 22-FEB-2003; 2003WO-US005136.
XX
PR 23-MAY-2002; 2002US-0383068P.
XX 05-DEC-2002; 2002US-0431499P.
XX
PA (FARB ) BAYER CORP.
PA (VIRO-) INST VIROLOGY.
XX
XX Pastorek J, Pastorekova S, Zatoricova M, Zavada J, Orlova Gut M;
PI WPI; 2004-035136/03.
DR P-PSDB; ADG31414.
XX
XX New monoclonal antibody generated from MN/CA IX-deficient mice, where the
PT antibody binds specifically to human tumor-associated cell adhesion
PT protein MN/CA IX or polypeptide, useful for diagnosing, prognosing or
PT treating cancer.
XX
XX Disclosure; SEQ ID NO 1; 156pp; English.
PS
CC This invention relates to a novel monoclonal antibody identified as the
CC MN/CA IX specific antibody prepared in knockout mice (CA IX deficient
CC mice). Specifically, this antibody is directed towards the MN gene, a
CC cellular oncogene known alternatively as carbonic anhydrase 9, CA9 or
CC MN/CA9, which encodes the MN protein that is also known as the MN/CA IX
CC isoenzyme, carbonic anhydrase IX, CA IX or the MN/G250 protein. The
CC present invention describes the generation of this monoclonal antibody,
CC and immunoreactive fragments thereof, which are directed against non-
CC immunodominant epitopes on the CA IX extracellular domain. As such, this
CC antibody can be useful diagnostically as a marker for preneoplastic/
CC neoplastic tumours, immunodetection methods and immunotargeting
CC approaches. Accordingly, compositions exhibit cytostatic activity and are
CC useful in the diagnosis, prognosis and treatment of various cancers
CC including breast, bladder or lung cancer, in tumour therapy and in anti-
CC tumour vaccination. This polynucleotide sequence is the human MN cDNA of
CC the invention.
SQ Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;
XX
XX
Query Match 100.0%; Score 1522; DB 12; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTCAGCCGATGAGTCCCTGTGCCCCAGCCCTGGCTCCCTGTGATCCCGGCC 60
Db 1 ACAGTCAGCCGATGAGTCCCTGTGCCCCAGCCCTGGCTCCCTGTGATCCCGGCC 60
Qy 61 CTGTCTCAAGGCTCACTGTGTGCACTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
Db 61 CTGTCTCAAGGCTCACTGTGTGCACTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
Qy 121 CCCGAGGTTGGCCCGGATGTGAGAGATTTCCCTTGGGAGAGGCTCTTGGGGA 180
Db 121 CCCGAGGTTGGCCCGGATGTGAGAGATTTCCCTTGGGAGAGGCTCTTGGGGA 180
Qy 181 GATGACCCACTGTGGGAGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
Db 181 GATGACCCACTGTGGGAGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
Qy 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Db 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Qy 301 GAAGTTAAGCCCTAAATCAGAGAGAGAGGCTCCGAGATTGAGAGATCTACTGT 360
Db 301 GAAGTTAAGCCCTAAATCAGAGAGAGAGGCTCCGAGATTGAGAGATCTACTGT 360
Qy 361 GAGGCTCTGAGATCTCAAGAACCCGAGATTAATGCCAGAGGAGCAAGAGAGGAGAT 420
Db 361 GAGGCTCTGAGATCTCAAGAACCCGAGATTAATGCCAGAGGAGCAAGAGAGGAGAT 420
```

Db 361 GAGGCTCTGAGATCTCAAGACCAGATTAATGCCACAGGGACAAAGAGGGGAT 420
Qy 421 GACAGAGTCAATTGAGGAGGAGACCCGCTGAGCCCGGGTGTCCAGGCTGC 480
Db 421 GACAGAGTCAATTGAGGAGGAGACCCGCTGAGCCCGGGTGTCCAGGCTGC 480
Qy 481 GGGGGGCGCTTCCAGTCCCGGTGAGTATCCGCCCCAGCTGCGGCTTGTGCGCGGC 540
Db 481 GGGGGGCGCTTCCAGTCCCGGTGAGTATCCGCCCCAGCTGCGGCTTGTGCGCGGC 540
Qy 541 CTGCGGCCCCCTGGAACTCTGAGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGGCTGCGC 600
Db 541 CTGCGGCCCCCTGGAACTCTGAGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGGCTGCGC 600
Qy 601 AACATGSCCAAGTGTGCACTGACCTGCTCTGAGGCTGAGAGATGCTGAGGCTCC 660
Db 601 AACATGSCCAAGTGTGCACTGACCTGCTCTGAGGCTGAGAGATGCTGAGGCTCC 660
Qy 661 GGGGGGAGTACCGGGCTGTGAGCTGTGCACTGAGGAGGAGGCTGAGAGTGTCCGGGC 720
Db 661 GGGGGGAGTACCGGGCTGTGAGCTGTGCACTGAGGAGGAGGCTGAGAGTGTCCGGGC 720
Qy 721 TCGAGACACTGTGAGAGGACCACTGCTCCGCGAGATCAAGTGTCACTCACTGAC 780
Db 721 TCGAGACACTGTGAGAGGACCACTGCTCCGCGAGATCAAGTGTCACTCACTGAC 780
Qy 781 ACCGCTTTGCCAGAGTTGACAGAGCTTGGGAGCGCCGAGAGGCTGAGGCTGTTGGCC 840
Db 781 ACCGCTTTGCCAGAGTTGACAGAGCTTGGGAGCGCCGAGAGGCTGAGGCTGTTGGCC 840
Qy 841 GCTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCAAGTGTGCTGCGCTTG 900
Db 841 GCTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCAAGTGTGCTGCGCTTG 900
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAAGAGTCAAGTCCAGAGCTGAGCAATATCTGCACTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAAGAGTCAAGTCCAGAGCTGAGCAATATCTGCACTC 960
Qy 961 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATGAGGGGTCTGTGACTACACCGGCTGT 1020
Db 961 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATGAGGGGTCTGTGACTACACCGGCTGT 1020
Qy 1021 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGAGTGAATGCTGAGTGAAGAGCTC 1080
Db 1021 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGAGTGAATGCTGAGTGAAGAGCTC 1080
Qy 1081 CACACCTCTCTGACACCTCTGTGGGACCTGTGTACTCTCGGCTCAAGCTGAATCTTCCGA 1140
Db 1081 CACACCTCTCTGACACCTCTGTGGGACCTGTGTACTCTCGGCTCAAGCTGAATCTTCCGA 1140
Qy 1141 GCGAGGAGCTTTAAATGCGGAGTGAATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
Db 1141 GCGAGGAGCTTTAAATGCGGAGTGAATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
Qy 1201 AGTCTCGGGGTGCTGAGCAGTCCAGCTGAATCTCTGCTGAGTGTGAGCAATCTTA 1260
Db 1201 AGTCTCGGGGTGCTGAGCAGTCCAGCTGAATCTCTGCTGAGTGTGAGCAATCTTA 1260
Qy 1261 GCGCTGTGTTTTGCGCTCTCTTGTCTGTCAACAGCGTGTGCGTCTTGTGCAATGGA 1320
Db 1261 GCGCTGTGTTTTGCGCTCTCTTGTCTGTCAACAGCGTGTGCGTCTTGTGCAATGGA 1320
Qy 1321 AGGAGCAGAGAGGGGAAACCAAGGGGTGTGACTCCGCGCAGAGAGTGGCCGAG 1380
Db 1321 AGGAGCAGAGAGGGGAAACCAAGGGGTGTGACTCCGCGCAGAGAGTGGCCGAG 1380
Qy 1381 ACTGAGCCTTGAAGCTGATCTTGTGAGATGTGAGAAACAGCAGAGGATCTGAGGG 1440
Db 1381 ACTGAGCCTTGAAGCTGATCTTGTGAGATGTGAGAAACAGCAGAGGATCTGAGGG 1440
Qy 1441 GAGAGCGGTAACTGTCTGTCTGTCTCTATTAATGCACTCTCTTTAACTGCAAGAAAT 1500
Db 1441 GAGAGCGGTAACTGTCTGTCTGTCTCTATTAATGCACTCTCTTTAACTGCAAGAAAT 1500

Qy 1501 TTTTAAATAAATATTTATTAAT 1522
Db 1501 TTTTAAATAAATAATTTATTAAT 1522

RESULT 5
ADK41803
ID ADK41803 standard; DNA, 1522 BP.
XX
XX AC ADK41803;
XX
XX DT 06-MAY-2004 (first entry)
XX
XX DE Human MN gene sequence SegID1.
XX
XX KM carbonic anhydrase IX; CA IX; precancerous cell; MN; cancerous cell;
XX human; vertebrate; cytostatic; vaccine; gene therapy;
XX renal cell carcinoma; breast cancer; colorectal cancer; ds; gene.
XX
XX OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 13..1392
XX FT /*tag= a
XX FT /product= "Human MN protein"
XX
XX PN MO2004005348-A1.
XX
XX PD 15-JAN-2004.
XX
XX PF 22-FEB-2003; 2003WO-US005137.
XX
XX PR 23-MAY-2002; 2002US-0383068P.
XX PR 05-DEC-2002; 2002US-0431499P.
XX
XX PA (FARB) BAYER CORP.
XX PA (VIRO-) INST VIROLOGY.
XX
XX PI Zavada J, Pastorekova S, Pastorek J, Zavadvova Z;
XX
XX DR WPI; 2004-083500/08.
XX
XX P-PSDB; ADK41804.
XX
XX PT New soluble form of the carbonic anhydrase IX (CA IX) protein for
XX screening, diagnosing or prognosing diseases associated with abnormal
XX expression of CA IX protein, e.g. renal cell carcinoma, breast cancer or
XX colorectal cancer.
XX
XX PS Disclosure; SEQ ID NO 1; 159pp; English.
XX
XX CC This invention relates to a novel soluble form of the carbonic anhydrase
XX IX (CA IX) (or MN) protein or CA IX polypeptide which is released from
XX precancerous and/or cancerous cells of a vertebrate into a body fluid.
XX The invention may be useful for the development of compounds with a
XX cyostatic activity or a vaccine whilst the disclosed sequences may be
XX used for gene therapy. The protein and method are useful for screening,
XX diagnosing or prognosing diseases associated with abnormal expression of
XX carbonic anhydrase IX protein, such as precancerous and cancerous
XX diseases like renal cell carcinoma, breast cancer or colorectal cancer.
XX The monoclonal antibody may also be used for treating or preventing
XX precancerous and cancerous diseases. The present sequence is that of the
XX gene which encodes the human MN protein of the invention.
XX
XX SQ Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 12; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTCAGCGCAGTGGCTCCCTGTGCGCCAGCCCTGAGCTCCCTGTGTGATCCCGGC 60
Db 1 ACAGTCAGCGCAGTGGCTCCCTGTGCGCCAGCCCTGAGCTCCCTGTGTGATCCCGGC 60

[illegible]

QY	1141	CGACGCAAGCCTTTGAATGGGCGAGTGATTTGAGGCTTCCTTCCCTGCTGAGTGAGACAGC	1200
QY	1141		
Db	1141	GCGACGACGCTTTGAATGGGCGAGTGATTTGAGGCTTCCTTCCCTGCTGAGTGAGACAGC <td>1200</td>	1200
QY	1201	AGTCTCTGGGGCTGCTGAGCCAGTCAGCTGAATTCCTGCTGAGCTGATGATCCTA	1260
Db	1201	AGTCTCTGGGGCTGCTGAGCCAGTCAGCTGAATTCCTGCTGAGCTGATGATCCTA	1260
QY	1261	GCCCTGCTTTTGGCCTCTCTTTTGTGCTGCACAGCGCTCGCGTTCCTTGTGCAGATGAGA	1320
Db	1261	GCCCTGCTTTTGGCCTCTCTTTTGTGCTGCACAGCGCTCGCGTTCCTTGTGCAGATGAGA	1320
QY	1321	AGGACAGCACAGAAAGGGGAAACCAAGGGGGTGTAGACTACGGCCACAGACAGAGTACCGAG	1380
Db	1321	AGGACAGCACAGAAAGGGGAAACCAAGGGGGTGTAGACTACGGCCACAGACAGAGTACCGAG	1380
QY	1381	ACTGAGAGCCTGAGAGGCTGATCTTGAGAAATGTGAGAAAGCAGACAGAGCATCTGAGGG	1440
Db	1381	ACTGAGAGCCTGAGAGGCTGATCTTGAGAAATGTGAGAAAGCAGACAGAGCATCTGAGGG	1440
QY	1441	GGAGCGGTAACCTGCTGCTGCTCATTTATGCACTTCCTTTAACTGCGCAAGAAATT	1500
Db	1441	GGAGCGGTAACCTGCTGCTGCTCATTTATGCACTTCCTTTAACTGCGCAAGAAATT	1500
QY	1501	TTTTAAATATAATATTATTAAT	1522
Db	1501	TTTTAAATATAATATTATTAAT	1522
RESULT 6			
ABL64779	standard; DNA; 1552 BP.		
ABL64779	standard; DNA; 1552 BP.		
AC	ABL64779;		
XX	15-MAY-2002	(first entry)	
XX			
DE	Lung cancer related gene sequence SEQ ID NO:3116.		
XX			
KW	Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;		
KM	stomach; lung; prostate; pancreas; carcinoma; leukaemia; cancerous;		
KM	cytostatic; gene therapy; antineoplastic; wilm's tumour; adenocarcinoma;		
XX	gene; ds.		
XX			
OS	Homo sapiens.		
XX			
PN	MO200194629-A2.		
PD	13-DEC-2001.		
XX			
PF	30-MAY-2001; 2001WO-US010838.		
XX			
PR	05-JUN-2000;	2000US-0209473P.	
PR	05-JUN-2000;	2000US-0209531P.	
PR	18-SEP-2000;	2000US-0231313P.	
PR	18-SEP-2000;	2000US-0233617P.	
PR	20-SEP-2000;	2000US-0234009P.	
PR	20-SEP-2000;	2000US-0234034P.	
PR	20-SEP-2000;	2000US-0234052P.	
PR	22-SEP-2000;	2000US-0234509P.	
PR	22-SEP-2000;	2000US-0234567P.	
PR	25-SEP-2000;	2000US-0234923P.	
PR	25-SEP-2000;	2000US-0234924P.	
PR	25-SEP-2000;	2000US-0235077P.	
PR	25-SEP-2000;	2000US-0235082P.	
PR	25-SEP-2000;	2000US-0235134P.	
PR	25-SEP-2000;	2000US-0235280P.	
PR	26-SEP-2000;	2000US-0235637P.	
PR	26-SEP-2000;	2000US-0235638P.	
PR	27-SEP-2000;	2000US-0235711P.	
PR	27-SEP-2000;	2000US-0235720P.	
PR	27-SEP-2000;	2000US-0235840P.	
PR	27-SEP-2000;	2000US-0235863P.	

PR 28-SEP-2000; 2000US-0236028P.
 PR 28-SEP-2000; 2000US-0236032P.
 PR 28-SEP-2000; 2000US-0236033P.
 PR 28-SEP-2000; 2000US-0236034P.
 PR 28-SEP-2000; 2000US-0236109P.
 PR 28-SEP-2000; 2000US-0236111P.
 PR 29-SEP-2000; 2000US-0236842P.
 PR 29-SEP-2000; 2000US-0236891P.
 PR 02-OCT-2000; 2000US-0237172P.
 PR 02-OCT-2000; 2000US-0237278P.
 PR 02-OCT-2000; 2000US-0237294P.
 PR 02-OCT-2000; 2000US-0237295P.
 PR 02-OCT-2000; 2000US-0237316P.
 PR 03-OCT-2000; 2000US-0237425P.
 PR 03-OCT-2000; 2000US-0237598P.
 PR 03-OCT-2000; 2000US-0237604P.
 PR 03-OCT-2000; 2000US-0237606P.
 PR 03-OCT-2000; 2000US-0237608P.
 PR 01-NOV-2000; 2000US-0244867P.
 PR 01-NOV-2000; 2000US-0245084P.

(AVAL-1) AVALON PHARM.

XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 PI Soppet DR, Weaver Z;

WPI; 2002-188264/24.

Screening for anti-neoplastic agent involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, and determining a change in expression of a gene of a signature gene set.

Claim 1; SEQ ID NO 3116; 44p; English.

XX The present invention describes a method (M1) for screening for an anti-neoplastic agent. The method involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, determining a change in expression of at least one gene (I) of a signature gene set, where (I) comprises a sequence (S) selected from 8447 sequences (given in AB161664 to AB170110), or is at least 95% identical to (S), where a change in expression is indicative of anti-neoplastic activity. (I) has cytotoxic activity and can be used in gene therapy. M1 can be used for screening an anti-neoplastic agent, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a result of M1, and the data is sufficient to convey the chemical structure and/or properties of the agent. M1 can be used in the treatment of cancer such as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney, prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell, cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilms tumor

SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 6; Length 1552;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGTCAGCCGATGAGTCCCTGTGACCCAGCCCTGGCTCCCTGTGATCCGGCC 60
 DB 1 ACAAGTCAGCCGATGAGTCCCTGTGACCCAGCCCTGGCTCCCTGTGATCCGGCC 60
 QY 31 ACAAGTCAGCCGATGAGTCCCTGTGACCCAGCCCTGGCTCCCTGTGATCCGGCC 90
 DB 31 ACAAGTCAGCCGATGAGTCCCTGTGACCCAGCCCTGGCTCCCTGTGATCCGGCC 90
 QY 61 CCTGCTCAGGCTCACTGTGCAACTGCTGTGCACTGTGCTTCTGATGCTTCAT 120
 DB 61 CCTGCTCAGGCTCACTGTGCAACTGCTGTGCACTGTGCTTCTGATGCTTCAT 120
 QY 91 CCTGCTCAGGCTCACTGTGCAACTGCTGTGCACTGTGCTTCTGATGCTTCAT 150
 DB 91 CCTGCTCAGGCTCACTGTGCAACTGCTGTGCACTGTGCTTCTGATGCTTCAT 150
 QY 121 CCCGAGAGTGGCCCGGATGAGAGATTTCCCTTGGAGAGGCTCTTCTGGGAA 180
 DB 121 CCCGAGAGTGGCCCGGATGAGAGATTTCCCTTGGAGAGGCTCTTCTGGGAA 180
 QY 151 CCCGAGAGTGGCCCGGATGAGAGATTTCCCTTGGAGAGGCTCTTCTGGGAA 210
 DB 151 CCCGAGAGTGGCCCGGATGAGAGATTTCCCTTGGAGAGGCTCTTCTGGGAA 210
 QY 181 GATGACCACTGGGCGAGAGATCTGCCCACTGAAGAGATTCACCCAGAGAGGAT 240
 DB 181 GATGACCACTGGGCGAGAGATCTGCCCACTGAAGAGATTCACCCAGAGAGGAT 240

DB 211 GATGACCACTGGGCGAGAGATTTGCCCACTGAAGAGATTCACCCAGAGAGGAT 270
 QY 241 CCACCCGAGAGAGAGATCTACTGTGAGAGAGATCTGAGAGAGATCTACT 300
 DB 271 CCACCCGAGAGAGAGATCTACTGTGAGAGAGATCTACTGTGAGAGAGATCTACT 330
 QY 301 GAAGTTAAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 360
 DB 331 GAAGTTAAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 390
 QY 361 GAGGCTCTGGAGATCTCCAGAAACCCAGATATATGCCCAGAGGACAAAGAGAGAT 420
 DB 391 GAGGCTCTGGAGATCTCCAGAAACCCAGATATATGCCCAGAGGACAAAGAGAGAT 450
 QY 421 GACCAAGTCAATGCGCTATGAGGCGACCCGCTGAGCCCGGCTGCCACCTGC 480
 DB 451 GACCAAGTCAATGCGCTATGAGGCGACCCGCTGAGCCCGGCTGCCACCTGC 510
 QY 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTCCGCTTCTGCCGCGC 540
 DB 511 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTCCGCTTCTGCCGCGC 570
 QY 541 CTGGCGCCCTGGAATCTGAGGCTTCCAGGCTCCGCGCTCCAGAACTGCGCTGCGC 600
 DB 571 CTGGCGCCCTGGAATCTGAGGCTTCCAGGCTCCGCGCTCCAGAACTGCGCTGCGC 630
 QY 601 AACAAATGACCAAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGCTTGGGTC 660
 DB 631 AACAAATGACCAAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGCTTGGGTC 690
 QY 661 GCGGCGGAGTACCGGCTCTGACAGTGTGCACTGAGGAGGCTGCGAGGTCGCGGCG 720
 DB 691 GCGGCGGAGTACCGGCTCTGACAGTGTGCACTGAGGAGGCTGCGAGGTCGCGGCG 750
 QY 721 TCGGAGCACTGTGAAAGGCGACCGTTTCCCTGCGAGATTCACGAGTTCACCTGAC 780
 DB 751 TCGGAGCACTGTGAAAGGCGACCGTTTCCCTGCGAGATTCACGAGTTCACCTGAC 810
 QY 781 ACCGCTTTGCAAGATTGACGAGGCTTGGGCGCGCCGAGAGGCTGCGCTTGGCC 840
 DB 811 ACCGCTTTGCAAGATTGACGAGGCTTGGGCGCGCCGAGAGGCTGCGCTTGGCC 870
 QY 841 GCGTTTCTGAGAGAGGCGCGGAGAAACAGTCCCTATGAGCACTTCTCTGCTTG 900
 DB 871 GCGTTTCTGAGAGAGGCGCGGAGAAACAGTCCCTATGAGCACTTCTCTGCTTG 930
 QY 901 GAAGAAATCGCTGAGAAAGCTCAGAGCTCAGAGTCCAGAGCTGAGATATCTGCACTC 960
 DB 931 GAAGAAATCGCTGAGAAAGCTCAGAGCTCAGAGTCCAGAGCTGAGATATCTGCACTC 990
 QY 961 CTGCGCTCTGACTTCAAGCGCTACTTCCATATGAGAGGCTTCTGACTACACCGCTGT 1020
 DB 991 CTGCGCTCTGACTTCAAGCGCTACTTCCATATGAGAGGCTTCTGACTACACCGCTGT 1050
 QY 1021 GCCAGAGGTGTCATGAGACTGTGTTTAAACAGACAGAGATGCTGAGGCTAAAGAGCTC 1080
 DB 1051 GCCAGAGGTGTCATGAGACTGTGTTTAAACAGACAGAGATGCTGAGGCTAAAGAGCTC 1110
 QY 1081 CACACCTCTCTGACACCTGTGAGGAGCTGTGACTCTCGGCTACAGCTGACCTTCCGA 1140
 DB 1111 CACACCTCTCTGACACCTGTGAGGAGCTGTGACTCTCGGCTACAGCTGACCTTCCGA 1170
 QY 1141 GCGACGACGCTTGAATGAGGCGAGATGATGAGGCTTCTCTGCTGAGTGAACAGC 1200
 DB 1171 GCGACGACGCTTGAATGAGGCGAGATGATGAGGCTTCTCTGCTGAGTGAACAGC 1230
 QY 1201 AGTCTCTGAGCTGTGAGCAAGTCAAGTGAATTCGAGCTGAGTGTGAGATCTCTA 1260
 DB 1231 AGTCTCTGAGCTGTGAGCAAGTCAAGTGAATTCGAGCTGAGTGTGAGATCTCTA 1290
 QY 1261 GCGCTGAGTGTGAGCTCTTCTTGTGCTGCAACAGGCTGCGGCTCTTGTGCAAGTGA 1320
 DB 1291 GCGCTGAGTGTGAGCTCTTCTTGTGCTGCAACAGGCTGCGGCTCTTGTGCAAGTGA 1350


```
Db      391  ||||| 391 GAGGCTCTGGAGATCTCAAGAACCCAGAAATAAGCCCAAGGAGCAAAAGAGGAGAT 450
Qy      421  ||||| 421 GACAGAGTCAATTGAGGCTATGAGAGGAGACCCGCTGGGCTCCGGAGTGTCCCAAGCTGC 480
Db      451  ||||| 451 GACCAAGATCATTTGGGCTATGAGAGGAGACCCGCTGGGCTCCGGAGTGTCCCAAGCTGC 510
Qy      481  ||||| 481 GCGGGGCGCTTCCAGTCTCCCGGTGATATCCGCCCCAGCTCGCGGCTTCTGCCCCGCC 540
Db      511  ||||| 511 GCGGGGCGCTTCCAGTCTCCCGGTGATATCCGCCCCAGCTCGCGGCTTCTGCCCCGCC 570
Qy      541  ||||| 541 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGCGCTCCCAAGATCGGCGCTGGCG 600
Db      571  ||||| 571 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGCGCTCCCAAGATCGGCGCTGGCG 630
Qy      601  ||||| 601 AACCAATGACCACAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGCTGTGAGTCCC 660
Db      631  ||||| 631 AACCAATGACCACAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGCTGTGAGTCCC 690
Qy      661  ||||| 661 GGGCGGAGTACCGGGCTCTGCAAGCTGCACTGCACTGCGGGGGCTGCAAGTGTGCTCGGCG 720
Db      691  ||||| 691 GGGCGGAGTACCGGGCTCTGCAAGCTGCACTGCACTGCGGGGGCTGCAAGTGTGCTCGGCG 750
Qy      721  ||||| 721 TCGAGACACATGTTGAGAGGACCGGTTCCCGGAGATCCAGAGTGTTCACCTCAGC 780
Db      751  ||||| 751 TCGAGACACATGTTGAGAGGACCGGTTCCCGGAGATCCAGAGTGTTCACCTCAGC 810
Qy      781  ||||| 781 ACCGCTTTGACAGAGTTGACAGAGGCTTGAGGGCGCCGAGAGGCTGAGCGCTGTGGCC 840
Db      811  ||||| 811 ACCGCTTTGACAGAGTTGACAGAGGCTTGAGGGCGCCGAGAGGCTGAGCGCTGTGGCC 870
Qy      841  ||||| 841 GCTTTTGTGAGAGAGGCCCCGAGAGAAACAATGCTTATGAGCAGTGTGTGTGCTGGCTTG 900
Db      871  ||||| 871 GCTTTTGTGAGAGAGGCCCCGAGAGAAACAATGCTTATGAGCAGTGTGTGTGCTGGCTTG 930
Qy      901  ||||| 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGAGTGAATATCTGCACTC 960
Db      931  ||||| 931 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGAGTGAATATCTGCACTC 990
Qy      961  ||||| 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCTGT 1020
Db      991  ||||| 991 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCTGT 1050
Qy      1021  ||||| 1021 GGCAGAGGCTCATCTGAGCTGTGTTTACAGACAGTGAATCTAGCTAGAGAGCTC 1080
Db      1051  ||||| 1051 GGCAGAGGCTCATCTGAGCTGTGTTTACAGACAGTGAATCTAGCTAGAGAGCTC 1110
Qy      1081  ||||| 1081 CACACCTCTCTGACACCTCTGTGGGACCTGTGACTCTCGGCTACAGCTGAATCTCGA 1140
Db      1111  ||||| 1111 CACACCTCTCTGACACCTCTGTGGGACCTGTGACTCTCGGCTACAGCTGAATCTCGA 1170
Qy      1141  ||||| 1141 GCGAGCGACCTTTGATATGGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
Db      1171  ||||| 1171 GCGAGCGACCTTTGATATGGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1230
Qy      1201  ||||| 1201 AGTCTCTGGGCTGTGAGGCACTGCAAGTGAATTCCTGCTGAGCTGTGACATCTCA 1260
Db      1231  ||||| 1231 AGTCTCTGGGCTGTGAGGCACTGCAAGTGAATTCCTGCTGAGCTGTGACATCTCA 1290
Qy      1261  ||||| 1261 GGCCTGTGTTTGGCTCTCTTTTGTGCTGACACAGCTGCGCTCTCTTGTGAGATGAGA 1320
Db      1291  ||||| 1291 GGCCTGTGTTTGGCTCTCTTTTGTGCTGACACAGCTGCGCTCTCTTGTGAGATGAGA 1350
Qy      1321  ||||| 1321 AGGCGACACAGAAAGGAGAAACAAAGGGGCTGTGAGCTACCGCCAGAGAGTACCGAG 1380
Db      1351  ||||| 1351 AGGCGACACAGAAAGGAGAAACAAAGGGGCTGTGAGCTACCGCCAGAGAGTACCGAG 1410
Qy      1381  ||||| 1381 ACTGAGCTTAAAGGCTGATCTTTGAGAAATGTGAGAGCCAGACAGAGGATCTGAGAGG 1440
Db      1411  ||||| 1411 ACTGAGCTTAAAGGCTGATCTTTGAGAAATGTGAGAGCCAGACAGGCAATCTGAGAGG 1470
Qy      1441  ||||| 1441 GGAGCGGTAACTGTCTGTCTCTGCTCAATATGCACTTCTTTTAACTGCAAGAAATT 1500
Db      1471  ||||| 1471 GGAGCGGTAACTGTCTGTCTCTGCTCAATATGCACTTCTTTTAACTGCAAGAAATT 1530
Qy      1501  ||||| 1501 TTTTAAATTAATATTTATTAAT 1522
Db      1531  ||||| 1531 TTTTAAATTAATATTTATTAAT 1552

RESULT 8
ABL65416
ABL65416 strand; DNA; 1552 BP.
XX
AC ABL65416;
XX
DT 15-MAY-2002 (first entry)
XX
DE Lung cancer related gene sequence SEQ ID NO:3753.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilms tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN W0200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US010838.
XX
PR 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0231133P.
PR 18-SEP-2000; 2000US-0231617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 25-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 28-SEP-2000; 2000US-0236112P.
PR 29-SEP-2000; 2000US-0236842P.
PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.
PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.
PR 02-OCT-2000; 2000US-0237316P.
PR 02-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.
XX
```

(AVALON PHARM.

Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S,
Sopet DR, Weaver Z;

WPI; 2002-188264/24.

Screening for anti-neoplastic agent involves exposing cells to a chemical
agent to be tested for anti-neoplastic activity, and determining a change
in expression of a gene of a signature gene set.

Claim 1; SEQ ID NO 3753; 44bp; English.

The present invention describes a method (M1) for screening for an anti-neoplastic agent. The method involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, determining a change in expression of at least one gene (I) of a signature gene set, where (I) comprises a sequence (S) selected from 8447 sequences (given in ABL1664 to ABL70110), or is at least 95% identical to (S), where a change in expression is indicative of anti-neoplastic activity. (I) has cytosolic activity and can be used in gene therapy. M1 can be used for screening an anti-neoplastic agent, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a result of M1, and the data is sufficient to convey the chemical structure and/or properties of the agent. M1 can be used in the treatment of cancer such as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney, prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilms tumor

Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 AAGATGAGCGGATGAGTCCCTGTCGCGCCGAGCCCTGCTGTTGATCCGCGCC 60
DB 31 AAGATGAGCGGATGAGTCCCTGTCGCGCCGAGCCCTGCTGTTGATCCGCGCC 90
QY 61 CCTGCTCAGGCTCACTGTCGAATGCTGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
DB 91 CCTGCTCAGGCTCACTGTCGAATGCTGTCGTCGTCGTCGTCGTCGTCGTCGTC 150
QY 121 CCCGAGAGGTTGCGCGGATGCAAGAGATCCCTTGGAGAGAGGCTCTTGGGAA 180
DB 151 CCCGAGAGGTTGCGCGGATGCAAGAGATCCCTTGGAGAGAGGCTCTTGGGAA 210
QY 181 GATGACCCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 211 GATGACCCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
QY 241 CCAACCCGAGAGAGAGATCTACTCTGAGAGAGATCTACTCTGAGAGAGATCTACTCT 300
DB 271 CCAACCCGAGAGAGAGATCTACTCTGAGAGAGATCTACTCTGAGAGAGATCTACTCT 330
QY 301 GAAATTAACTTAATCAAGAAAGAGGCTCCCTGAAGTTAGAGATCTACTCTGTT 360
DB 331 GAAATTAACTTAATCAAGAAAGAGGCTCCCTGAAGTTAGAGATCTACTCTGTT 390
QY 361 GAGGCTCCGAGAGATCTCTCAAGAAACCCAGAAATTAAGCCCAAGAGAGAGAGAT 420
DB 391 GAGGCTCCGAGAGATCTCTCAAGAAACCCAGAAATTAAGCCCAAGAGAGAGAT 450
QY 421 GACCAAGTCAATTGGGCTATGAGAGGAGCCGCGCTGGCCCGGGTGTCCCAAGCTCG 480
DB 451 GACCAAGTCAATTGGGCTATGAGAGGAGCCGCGCTGGCCCGGGTGTCCCAAGCTCG 510
QY 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCGCCAGCTGCGCTTTCGCGCGCC 540
DB 511 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCGCCAGCTGCGCTTTCGCGCGCC 570
```

```
QY 541 CTGCGCCCCCTGAAACTCTGAGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCTGCGC 600
DB 571 CTGCGCCCCCTGAAACTCTGAGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCTGCGC 630
QY 601 AACAAATGCGCAAGTGTGCACTGACCTGCTCTCTGGGCTTGAAGATGCTCTGGGTC 660
DB 631 AACAAATGCGCAAGTGTGCACTGACCTGCTCTCTGGGCTTGAAGATGCTCTGGGTC 690
QY 661 GGGCGGAGATACCGGCTCTGAGAGTGCATGCACTGAGGAGGAGCTGAGTGTCCGAGC 720
DB 691 GGGCGGAGATACCGGCTCTGAGAGTGCATGCACTGAGGAGGAGCTGAGTGTCCGAGC 750
QY 721 TCGAGACACTGTGAGAGGCAACCGTTTCCCTGCGAGATCAAGTGTGTTCACTCAAC 780
DB 751 TCGAGACACTGTGAGAGGCAACCGTTTCCCTGCGAGATCAAGTGTGTTCACTCAAC 810
QY 781 ACCGCTTTGCAAGATTGACAGAGCTTTGGGCGCGCGGAGAGGCTGGCGCTTTGGCC 840
DB 811 ACCGCTTTGCAAGATTGACAGAGCTTTGGGCGCGCGGAGAGGCTGGCGCTTTGGCC 870
QY 841 GCGTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGAGATGCTGTGCTGCTG 900
DB 871 GCGTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGAGATGCTGTGCTGCTG 930
QY 901 GAGAAATGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGCTGAGACATATCTGACATC 960
DB 931 GAGAAATGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGCTGAGACATATCTGACATC 990
QY 961 CTGCGCTTGAATTCAGCGGCTACTTCCAAATATGAGGAGTCTGTGATCAACCGCGCTGT 1020
DB 991 CTGCGCTTGAATTCAGCGGCTACTTCCAAATATGAGGAGTCTGTGATCAACCGCGCTGT 1050
QY 1021 GCGCGAGGCTGATCTGAGCTGCTGTTAAACAGAGAGATGCTGAGTCTAAGAGCTC 1080
DB 1051 GCGCGAGGCTGATCTGAGCTGCTGTTAAACAGAGAGATGCTGAGTCTAAGAGCTC 1110
QY 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGATCTCTGGCTACAGCTGAATTCGCA 1140
DB 1111 CACACCTCTCTGACACCTCTGTGGGAGCTGTGATCTCTGGCTACAGCTGAATTCGCA 1170
QY 1141 GCGAGCGAGCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
DB 1171 GCGAGCGAGCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAAGCAGC 1230
QY 1201 AGTCTCTGGGCTGCTGAGGCACTCCAGCTGAATTCCTGCTGCTGCTGCTGATCTGA 1260
DB 1231 AGTCTCTGGGCTGCTGAGGCACTCCAGCTGAATTCCTGCTGCTGCTGCTGATCTGA 1290
QY 1261 GCCCTGTTTTTGGGCTCTTTTGTGCTGACCAAGGCTGCGGTTCTTGTGAGATGAGA 1320
DB 1291 GCCCTGTTTTTGGGCTCTTTTGTGCTGACCAAGGCTGCGGTTCTTGTGAGATGAGA 1350
QY 1321 AGGCAAGACAGAAAGGAGAAACAAAGGGGTTGAGCTACCGCCAGCAGAGGTAAGCCGAG 1380
DB 1351 AGGCAAGACAGAAAGGAGAAACAAAGGGGTTGAGCTACCGCCAGCAGAGGTAAGCCGAG 1410
QY 1381 ACTGAGAGCTTAAGAGCTGATCTTGAAGAAATGAGAAACCAAGCCAGAGAGCAATCTGAGG 1440
DB 1411 ACTGAGAGCTTAAGAGCTGATCTTGAAGAAATGAGAAACCAAGCCAGAGAGCAATCTGAGG 1470
QY 1441 GAGCGGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1471 GAGCGGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAAT 1552
```

RESULT 9
AB168346
ID AB168346 standard; DNA; 1552 BP.
XX

AC ABL68346;
XX
DT 15-MAY-2002 (first entry)
XX
DE Kidney cancer related gene sequence SEQ ID NO:6683.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; carcercous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN MO200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001MO-US010838.
XX
PR 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236034P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 29-SEP-2000; 2000US-0236842P.
PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.
PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.
PR 02-OCT-2000; 2000US-0237316P.
PR 03-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.
XX
PA (AVAL-) AVALON PHARM.
XX
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horligan S;
PI Soppet DR, Weaver Z;
XX
XX WPI; 2002-188264/24.
PT Screening for anti-neoplastic agent involves exposing cells to a chemical
PT agent to be tested for anti-neoplastic activity, and determining a change
PT in expression of a gene of a signature gene set.
XX

PS Claim 1; SEQ ID NO 6683; 44bp; English.
XX
XX The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in (I)
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening an
CC anti-neoplastic agent, and can be used for producing a product which is
CC the data collected with respect to the anti-neoplastic agent as a result
CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophagal, ovarian, kidney,
CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's
CC tumour
XX
SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 1522; DB 6; Length 1552;
Beet Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGTCACCCGCGATGGCTCCCTGTGCCCCGACCCCTGGCTCCCTGTGATCCCGCC 60
DB 31 ACAGTCACCCGCGATGGCTCCCTGTGCCCCGACCCCTGGCTCCCTGTGATCCCGCC 90
QY 61 CCTGTCACAGCCCTCACTGTGTGCACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
DB 91 CCTGTCACAGCCCTCACTGTGTGCACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 150
QY 121 CCCGAGAGTTGCCCGGATCAGAGAGATTTCCCTTGGAGAGAGGCTCTTGGAGAA 180
DB 151 CCCGAGAGTTGCCCGGATCAGAGAGATTTCCCTTGGAGAGAGGCTCTTGGAGAA 210
QY 181 GATGACCCACTGGCGAGAGAGATCTGCCAGTGAAGATTTCAACCCAGAGAGAGAT 240
DB 211 GATGACCCACTGGCGAGAGAGATCTGCCAGTGAAGATTTCAACCCAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATCTTCTGTGAGAGAGATCTTCTGTGAGAGAGATTTACT 300
DB 271 CCACCCGAGAGAGAGATCTTCTGTGAGAGAGATCTTCTGTGAGAGAGATTTACT 330
QY 301 GAAGTTAAGCTTAATCAAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 360
DB 331 GAAGTTAAGCTTAATCAAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 390
QY 361 GAGGCTCTGGAGATCTCTGAAGAACCCAGATTAATGCCACAGAGACAAAGAGGAT 420
DB 391 GAGGCTCTGGAGATCTCTGAAGAACCCAGATTAATGCCACAGAGACAAAGAGGAT 450
QY 421 GACCAAGTCAATTGGCGCTATGGAGGAGACCCGCGCTGGCGCGCGGCTGCCAGCTGC 480
DB 451 GACCAAGTCAATTGGCGCTATGGAGGAGACCCGCGCTGGCGCGCGGCTGCCAGCTGC 510
QY 481 GCGGCGCGCTTCCAGTCCCGCGTGAATTCGCCGCCAGCTGCGCGCTTGTGCGCGCC 540
DB 511 GCGGCGCGCTTCCAGTCCCGCGTGAATTCGCCGCCAGCTGCGCGCTTGTGCGCGCC 570
QY 541 CTGCGCCCTCTGGAATCTCTGGGCTTCCAGTCTCCGCGCTCCCAAACTGCGCTGGCG 600
DB 571 CTGCGCCCTCTGGAATCTCTGGGCTTCCAGTCTCCGCGCTCCCAAACTGCGCTGGCG 630
QY 601 AACATGGCCACAGTGGCACTGACCTGCTCTGCGGCTGAGAGATGCGTGGGCTCC 660
DB 631 AACATGGCCACAGTGGCACTGACCTGCTCTGCGGCTGAGAGATGCGTGGGCTCC 690
QY 661 GGGGAGAGATACCGGAGCTGTGACAGCTCATCTGTGAGGGGAGCTGTGAGGCTCCGGGC 720
DB 691 GGGGAGAGATACCGGAGCTGTGACAGCTCATCTGTGAGGGGAGCTGTGAGGCTCCGGGC 750

QY 721 TCGAGACACATGTGAGAGCCACCGTTTCCCTGCCAGATCCAGTGTTCACCTCAGC 780
 DB 751 TCGAGACACATGTGAGAGCCACCGTTTCCCTGCCAGATCCAGTGTTCACCTCAGC 810
 QY 781 ACCGCTTTGACAGATTGACAGAGCCCTTGGGGCCCGGAGAGCCCTGGCCGTGGCC 840
 DB 811 ACCGCTTTGACAGATTGACAGAGCCCTTGGGGCCCGGAGAGCCCTGGCCGTGGCC 870
 QY 841 GCGCTTTGAG 900
 DB 871 GCGCTTTGAG 930
 QY 901 GAAAGAAATGCTGAG 960
 DB 931 GAAAGAAATGCTGAG 990
 QY 961 CTGCGCTCTGACTTACGCGCTACTTCCAAATATGAGGGGTCTCTGACTACCGCCCTGT 1020
 DB 991 CTGCGCTCTGACTTACGCGCTACTTCCAAATATGAGGGGTCTCTGACTACCGCCCTGT 1050
 QY 1021 GCGGAGAGGTCTCATCTGACTGTGTAAACAGACAGTATGCTGAGTCTAGACAGCTC 1080
 DB 1051 GCGGAGAGGTCTCATCTGACTGTGTAAACAGACAGTATGCTGAGTCTAGACAGCTC 1110
 QY 1081 CACACCTCTCTGACACACCTGTGGGAGACCTGTGAGACTCTCGGCTACAGCTGAATCCGA 1140
 DB 1111 CACACCTCTCTGACACACCTGTGGGAGACCTGTGAGACTCTCGGCTACAGCTGAATCCGA 1170
 QY 1141 GCGAGCGACCTTTGATGAGGGGAGTATGAGGCTCTCTGCTGCTGAGTGAACAGC 1200
 DB 1171 GCGAGCGACCTTTGATGAGGGGAGTATGAGGCTCTCTGCTGCTGAGTGAACAGC 1230
 QY 1201 AGTCTCTGGGCTGTGAGACAGTCCAGCTGAATCTCTGCTGCTGCTGCTGCTGCTGCT 1260
 DB 1231 AGTCTCTGGGCTGTGAGACAGTCCAGCTGAATCTCTGCTGCTGCTGCTGCTGCTGCT 1290
 QY 1261 GCGCTGCTTTTGGGCTCTCTTTTGGTGCACACAGGCTGGCGTCTCTTGGACATGAGA 1320
 DB 1291 GCGCTGCTTTTGGGCTCTCTTTTGGTGCACACAGGCTGGCGTCTCTTGGACATGAGA 1350
 QY 1321 AGGCGACACAG 1380
 DB 1351 AGGCGACACAG 1410
 QY 1381 ACTGAGCTTGAAGCTGTGATCTTGGAGAAATGTGAGAGAGAGAGAGAGAGAGAGAG 1440
 DB 1411 ACTGAGCTTGAAGCTGTGATCTTGGAGAAATGTGAGAGAGAGAGAGAGAGAGAGAG 1470
 QY 1441 GGAGCGGTAAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
 DB 1471 GGAGCGGTAAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
 QY 1501 TTTTAAATTAATATTTATTAAT 1522
 DB 1531 TTTTAAATTAATATTTATTAAT 1552
 RESULT 10
 ABX76385
 ID ABX76385 standard; DNA; 1552 BP.
 XX
 AC ABX76385;
 DT 02-APR-2003 (first entry)
 XX
 DE Lung cancer-associated polynucleotide #249.
 XX
 KW Lung cancer-associated polynucleotide; gene; ds; cytostatic; emphysema;
 antiinflammatory; antineoplastic; non-small cell lung cancer; atelectasis;
 small cell lung cancer; benign lesion; precancerous lesion; bronchitis;
 chronic obstructive pulmonary disease; hypersensitivity pneumonitis;
 interstitial pulmonary fibrosis; fibrosis; asthma; bronchiectasis.

XX
 OS Unidentified.
 PN WO200286443-A2.
 XX
 PD 31-OCT-2002.
 XX
 PF 18-APR-2002; 2002WO-US012476.
 XX
 PR 18-APR-2001; 2001US-0284770P.
 PR 10-MAY-2001; 2001US-0290492P.
 PR 09-NOV-2001; 2001US-0339245P.
 PR 13-NOV-2001; 2001US-0350666P.
 PR 29-NOV-2001; 2001US-034370P.
 PR 12-APR-2002; 2002US-0372246P.
 XX
 PA (EOSB-) EOS BIOTECHNOLOGY INC.
 XX
 PI Aziz N, Murray R;
 XX
 DR WPI: 2003-093161/08.
 DR P-PSDB; ABUS6656.
 XX
 PT Detecting a lung cancer-associated transcript in a cell from a patient
 PT for treating lung cancer, by contacting a biological sample from the
 PT patient with a polynucleotide that exhibits increased or decreased
 PT expression in lung cancer.
 XX
 PS Claim 22; Page 379-380; 453pp; English.
 XX
 CC The invention relates to a method for detecting a lung cancer-associated
 CC transcript in a cell from a patient, comprising contacting a biological
 CC sample from the patient with a polynucleotide that selectively hybridizes
 CC to a sequence that is at least 80 % identical to a gene that exhibits
 CC increased or decreased expression in lung cancer samples. Lung cancer-
 CC associated polynucleotides and polypeptides are used for identifying a
 CC compound that modulates a lung cancer-associated polypeptide, for
 CC inhibiting proliferation of a lung cancer-associated cell to treat lung
 CC cancer in a patient and for treating a mammal having lung cancer by
 CC administering a modulatory compound identified. The methods are useful
 CC for treating lung cancer, such as small cell lung cancer, non-small cell
 CC lung cancer or other benign or precancerous lesions, e.g. atelectasis,
 CC emphysema, bronchitis, chronic obstructive pulmonary disease, fibrosis,
 CC hypersensitivity pneumonitis, interstitial pulmonary fibrosis, asthma and
 CC bronchiectasis. The genes, polynucleotides and polypeptides are useful
 CC for diagnostic purposes and as targets for screening for therapeutic
 CC compounds that modulate lung cancer, such as antibodies. Sequences
 CC ABX76124-ABX76474 represent lung cancer-associated polynucleotides of the
 CC invention
 XX
 SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
 Query Match 100.0%; Score 1522; DB 8; Length 1552;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACAGTCAAGCCGATGAGCTCCCTGTCGCCACCCCTGCTCCTCTGTGATCCCGGCC 60
 DB 31 ACAGTCAAGCCGATGAGCTCCCTGTCGCCACCCCTGCTCCTCTGTGATCCCGGCC 90
 QY 61 CCTGCTCAAGGCTCACTGATGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
 DB 91 CCTGCTCAAGGCTCACTGATGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
 QY 121 CCCAGAGGTTGCCCGGATGAGAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGAA 180
 DB 151 CCCAGAGGTTGCCCGGATGAGAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGAA 210
 QY 181 GATGACCCACTGGGAGAGAGATTTGCCAGTGAAGAGATTTCAACAGAGAGAGAT 240
 DB 211 GATGACCCACTGGGAGAGAGATTTGCCAGTGAAGAGATTTCAACAGAGAGAGAT 270
 QY 241 CACACCGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAGAGAGAGATTTACT 300

Db 271 CACCCGAGAGAGGATCTACCTGAGAGAGAGATCTAGAGAGAGAGATCTACCT 330
Qy 301 GAAATTAAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGT 360
Db 331 GAAATTAAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGT 390
Qy 361 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 450
Qy 421 GACAGAGATCTGAT 480
Db 451 GACAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 510
Qy 481 GCGGAGCGCTTCCAGTCCCGGAGTGAATATCCGCCCCAGCTCCGCTTCTGCCCCG 540
Db 511 GCGGAGCGCTTCCAGTCCCGGAGTGAATATCCGCCCCAGCTCCGCTTCTGCCCCG 570
Qy 541 CTGCGGCTTCCAGTCTCTGAGCTCTCCGCTCCGCTCCGAGAACTGGGCTGCGC 600
Db 571 CTGCGGCTTCCAGTCTCTGAGCTCTCCGCTCCGCTCCGAGAACTGGGCTGCGC 630
Qy 601 AACAAATGCGCAAGTGTGCACTGACCTGCTCTGAGGCTAGAGATGGCTCGGGTCC 660
Db 631 AACAAATGCGCAAGTGTGCACTGACCTGCTCTGAGGCTAGAGATGGCTCGGGTCC 690
Qy 661 GGGCGGAGATCCGGGCTCTGACGCTGATCTGCACTGGGAGGCTGACGCTGCGG 720
Db 691 GGGCGGAGATCCGGGCTCTGACGCTGATCTGCACTGGGAGGCTGACGCTGCGG 750
Qy 721 TGGAGAGCACTGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
Db 751 TGGAGAGCACTGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 810
Qy 781 ACCGCTTTCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Db 811 ACCGCTTTCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 870
Qy 841 GCTCTTTCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
Db 871 GCTCTTTCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 930
Qy 901 GAAAGAAATGCTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
Db 931 GAAAGAAATGCTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 990
Qy 961 CTGCGCTTTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
Db 991 CTGCGCTTTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1050
Qy 1021 GCGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
Db 1051 GCGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1110
Qy 1081 CACACGCTTTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
Db 1111 CACACGCTTTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1170
Qy 1141 GCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
Db 1171 GCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1230
Qy 1201 AGTCTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1260
Db 1231 AGTCTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1290
Qy 1261 GCGCTGATTTTGGGCTCTTTTGGCTGTCACCAAGGAGGAGGAGGAGGAGGAGGAGGAG 1320
Db 1291 GCGCTGATTTTGGGCTCTTTTGGCTGTCACCAAGGAGGAGGAGGAGGAGGAGGAGGAG 1350
Qy 1321 AGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1380

Db 1351 AGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1410
Qy 1381 ACTGAGGCTGAGAGGCTGAGATCTTGGAGAAATGTGAGAGAGGAGGAGGAGGAGGAG 1440
Db 1411 ACTGAGGCTGAGAGGCTGAGATCTTGGAGAAATGTGAGAGAGGAGGAGGAGGAGGAG 1470
Qy 1441 GAGAGCGGTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db 1471 GAGAGCGGTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 11
ABX76124
ID ABX76124 standard; DNA; 1552 BP.
XX
XX
AC ABX76124;
XX
DT 02-APR-2003 (first entry)
XX
XX
DE Lung cancer-associated polynucleotide #1.
XX
XX
KW Lung cancer-associated polynucleotide; gene; ds; cytosolic; emphysema;
KW antiinflammatory; antiasthmatic; non-small cell lung cancer; atelectasis;
KW small cell lung cancer; benign lesion; precancerous lesion; bronchitis;
KW chronic obstructive pulmonary disease; hypersensitivity pneumonitis;
KW interstitial pulmonary fibrosis; fibrosis; asthma; bronchiectasis.
XX
OS Unidentified.
XX
XX
PN WO200286443-A2.
XX
XX
PD 31-OCT-2002.
XX
PF 18-APR-2002; 2002WO-US012476.
XX
PR 18-APR-2001; 2001US-0284770P.
PR 10-MAY-2001; 2001US-0290492P.
PR 09-NOV-2001; 2001US-0339245P.
PR 13-NOV-2001; 2001US-0350666P.
PR 29-NOV-2001; 2001US-0334370P.
PR 12-APR-2002; 2002US-0372246P.
XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.
XX
XX
PI Aziz N, Murray R;
XX
DR WP1; 2003-093161/08.
XX
DR P-PSDB; ABUS6408.
XX
PT Detecting a lung cancer-associated transcript in a cell from a patient
PT for treating lung cancer, by contacting a biological sample from the
PT patient with a polynucleotide that exhibits increased or decreased
PT expression in lung cancer.
XX
XX
PS Claim 22; Page 189; 453bp; English.
XX
CC The invention relates to a method for detecting a lung cancer-associated
CC transcript in a cell from a patient, comprising contacting a biological
CC sample from the patient with a polynucleotide that selectively hybridizes
CC to a sequence that is at least 80 % identical to a gene that exhibits
CC increased or decreased expression in lung cancer samples. Lung cancer-
CC associated polynucleotides and polypeptides are used for identifying a
CC compound that modulates a lung cancer-associated polypeptide, for
CC inhibiting proliferation of a lung cancer-associated cell to treat lung
CC cancer in a patient and for treating a mammal having lung cancer by
CC administering a modulatory compound identified. The methods are useful
CC for treating lung cancer, such as small cell lung cancer, non-small cell
CC lung cancer or other benign or precancerous lesions, e.g. atelectasis,
CC emphysema, bronchitis, chronic obstructive pulmonary disease, fibrosis,

CC hypersensitivity pneumonitis, interstitial pulmonary fibrosis, asthma and
CC bronchiectasis. The genes, polynucleotides and polypeptides are useful
CC for diagnostic purposes and as targets for screening for therapeutic
CC compounds that modulate lung cancer, such as antibodies. Sequences
CC ABX76124-ABX76474 represent lung cancer-associated polynucleotides of the
CC invention

XX Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 8; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 AAGTCAGCCGAGTGCCTCCCTGTCGCCCCAGCCCTGCTCCCTGTTGATCCCGGAC 60
DB 31 AAGTCAGCCGAGTGCCTCCCTGTCGCCCCAGCCCTGCTCCCTGTTGATCCCGGAC 90
QY 61 CCGCTCCAGGCTCACTGTGCACTGTGTCTCACTGTCTGTGTGTGTGTGTGTGTGT 120
DB 91 CCGCTCCAGGCTCACTGTGCACTGTGTCTCACTGTCTGTGTGTGTGTGTGTGTGT 150
QY 121 CCCCAGAGGTTGCCCGGATGCAAGAGATTCCTCTG3AGAGAGGCTTTCTG3GAA 180
DB 151 CCCCAGAGGTTGCCCGGATGCAAGAGATTCCTCTG3AGAGAGGCTTTCTG3GAA 210
QY 181 GATGACCCGCTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 211 GATGACCCGCTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 271 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
QY 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCTCTGAAGTTAGAGATCTACTACTGTT 360
DB 331 GAAGTTAAGCTTAATCAGAGAGAGGCTCTCTGAAGTTAGAGATCTACTACTGTT 390
QY 361 GAGGCTCCCTGAGATCTCTAAGAACCCGAGATTAATGCCCAGAGAGAGAGAGAT 420
DB 391 GAGGCTCCCTGAGATCTCTAAGAACCCGAGATTAATGCCCAGAGAGAGAGAGAT 450
QY 421 GACAGAGATCATTTGGGCTATGAGAGGAGACCCGCTGAGCCCGGAGTGTCCCAAGCTGC 480
DB 451 GACAGAGATCATTTGGGCTATGAGAGGAGACCCGCTGAGCCCGGAGTGTCCCAAGCTGC 510
QY 481 GCGGCGCGCTTCCAGTCCCGGTGATATCCGCCCCAGCTGCGCTTTCTGCGCGCC 540
DB 511 GCGGCGCGCTTCCAGTCCCGGTGATATCCGCCCCAGCTGCGCTTTCTGCGCGCC 570
QY 541 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCCGCGCTCCCAAGATCTGCGCTGCC 600
DB 571 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCCGCGCTCCCAAGATCTGCGCTGCC 630
QY 601 AACCAATGGCCAGTGTGCACTGACCTGCTCTGAGGCTAGAGATGCTCTGAGTCC 660
DB 631 AACCAATGGCCAGTGTGCACTGACCTGCTCTGAGGCTAGAGATGCTCTGAGTCC 690
QY 661 GGGCGGAGATCCGGGCTCTGCACTGTGCACTGTGAGGAGGCTCAAGTGTCTGCGGC 720
DB 691 GGGCGGAGATCCGGGCTCTGCACTGTGCACTGTGAGGAGGCTCAAGTGTCTGCGGC 750
QY 721 TGGAGACACATCTGTGAAGGACCCGTTTCCCTGCGGAGATTCACGTGTGTCACTCAGC 780
DB 751 TGGAGACACATCTGTGAAGGACCCGTTTCCCTGCGGAGATTCACGTGTGTCACTCAGC 810
QY 781 ACCGCTTTTCCAGATTGACAGAGGCTTGGGGCGCCGAGAGGCTCTGCGGTTGGCC 840
DB 811 ACCGCTTTTCCAGATTGACAGAGGCTTGGGGCGCCGAGAGGCTCTGCGGTTGGCC 870
QY 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAAGTCTATGAGAGATTGCTGTGCTTG 900
DB 871 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAAGTCTATGAGAGATTGCTGTGCTTG 930
```

```
QY 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGATGACATATCTGCACTC 960
DB 931 GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGATGACATATCTGCACTC 990
QY 961 CTGCCCCCTGACTTCAAGCCGCTACTTCCAAATGAGGGGTCTCTGACATACCCGCTGT 1020
DB 991 CTGCCCCCTGACTTCAAGCCGCTACTTCCAAATGAGGGGTCTCTGACATACCCGCTGT 1050
QY 1021 GCCCAGGCTGATCTGAGCTGTGTTTAAACAGACAGATGATGCTAGAGCTAAAGCACTC 1080
DB 1051 GCCCAGGCTGATCTGAGCTGTGTTTAAACAGACAGATGATGCTAGAGCTAAAGCACTC 1110
QY 1081 CACACCTCTCTGACACCTCTGAGGAGCTGTGTACTCTGAGCTACAGTGAATCTCCGA 1140
DB 1111 CACACCTCTCTGACACCTCTGAGGAGCTGTGTACTCTGAGCTACAGTGAATCTCCGA 1170
QY 1141 GCGAGCGACCTTTGATGAGGAGATGATGAGGCTCTCTGCTGAGATGACAGC 1200
DB 1171 GCGAGCGACCTTTGATGAGGAGATGATGAGGCTCTCTGCTGAGATGACAGC 1230
QY 1201 AGTCTCTGGGCTGCTGAGGCACTCCAGCTGAATTCCTGCTGAGCTGAGTGAATCTTA 1260
DB 1231 AGTCTCTGGGCTGCTGAGGCACTCCAGCTGAATTCCTGCTGAGCTGAGTGAATCTTA 1290
QY 1261 GCCCTGATTTTGGCTCTCTTTTGTGTCACAGGCTGCGCTCTCTGAGATGAGA 1320
DB 1291 GCCCTGATTTTGGCTCTCTTTTGTGTCACAGGCTGCGCTCTCTGAGATGAGA 1350
QY 1321 AGGAGCACAGAGAGGAAACAAAGGGGTGTGAGTACCGCTCCAGAGAGTACCGAG 1380
DB 1351 AGGAGCACAGAGAGGAAACAAAGGGGTGTGAGTACCGCTCCAGAGAGTACCGAG 1410
QY 1381 ACTGAGCTTAAGGCTGATCTTGAAGAAATGAGAAACCCAGCCAGAGCATCTGAGGG 1440
DB 1411 ACTGAGCTTAAGGCTGATCTTGAAGAAATGAGAAACCCAGCCAGAGCATCTGAGGG 1470
QY 1441 GGAGCCGATTAATGTCCTGCTCTGCTCATTATGCACTTCTTTTAAGTGCAGAAAT 1500
DB 1471 GGAGCCGATTAATGTCCTGCTCTGCTCATTATGCACTTCTTTTAAGTGCAGAAAT 1530
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAAT 1552
```

RESULT 12
ADG89343
ID ADG89343 standard; DNA; 1552 BP.
XX
AC ADG89343;
XX
DT 11-MAR-2004 (first entry)
XX
DE Cancer detection method related gene #6.
XX
KW ds; cancer; gene expression;
KW estrogen receptor-positive invasive breast cancer.
OS Homo sapiens.
XX
PN MO2003078662-A1.
XX
PD 25-SEP-2003.
XX
PF 12-MAR-2003; 2003WO-US007713.
XX
PR 13-MAR-2002; 2002US-0364890P.
XX
PR 18-SEP-2002; 2002US-0412049P.
XX
PA (GENO-) GENOMIC HEALTH INC.
XX
PI Baker UB, Cronin MT, Kiefer MC, Shak S, Walker MG;
XX

DR MPI; 2003-767536/72.
XX Predicting clinical outcome for a patient diagnosed with cancer comprises
PT determining the expression level of one or more genes, and compared to
PT the amount found in a reference cancer tissue set.
XX
PS Disclosure; SEQ ID NO 291; 198bp; English.
XX
CC The invention relates to a method of predicting clinical outcome for a
CC patient diagnosed with cancer by determining the expression level of one
CC or more genes, or their expression products, selected from p53BP2,
CC cathepsin B, cathepsin L, K167/M1B1, and thymidine kinase in a cancer
CC tissue obtained from the patient, normalized against control gene(s), and
CC compared to the amount found in a reference cancer tissue set. The
CC specification also discloses an array comprising polynucleotides
CC hybridizing to the following genes: FOXM1, PRAME, Bcl2, SKI5, CEGP1, Ki-
CC 67, GSTM1, CA9, PR, BCL3, NME1, SURV, GATM3, TPRC, YB-1, DPEY, GSTM3,
CC RPS6KB1, Src, Chk1, ID1, Esrrb1, p27, CCNB1, XIAP, Chk2, CDC25B, IGFBP1,
CC AKO5699, PI3K2A, TGFBR3, BAG11, CYP3A4, BPCAM, VEGFR, p52, hENT1, WISP1,
CC HNF3A, NFKBp65, BRCA2, EGFR, TKI, VDR, Contis51037, pENT1, EPHX1, IRTA,
CC CDH1, HIF1a, IGFBP3, CTSE, Her2 and DIABLO, immobilized on a solid
CC surface. The methods are useful for predicting clinical outcome for a
CC patient diagnosed with cancer, classifying cancer, and predicting the
CC likelihood of long-term survival of a breast cancer patient, or a patient
CC diagnosed with invasive breast cancer or with estrogen receptor (ER)-
CC positive invasive breast cancer. This sequence corresponds to a gene
CC sequence whose expression is detected by the method of the invention.
XX
SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
Query Match 100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1552; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGTCAGCCGATGAGCTCCCTGTCGCCAGCCCTGCTCCTCTGTTGATCCCGAGC 60
DB 31 ACAGTCAGCCGATGAGCTCCCTGTCGCCAGCCCTGCTCCTCTGTTGATCCCGAGC 90
QY 61 CCTGCTCCAGGCTCTCATCTGTGCACTGCTGCTGCTCATCTGCTGCTGCTGCTGCT 120
DB 91 CCTGCTCCAGGCTCTCATCTGTGCACTGCTGCTGCTCATCTGCTGCTGCTGCTGCT 150
QY 121 CCCCAAGAGTTGCCCGAGATGAGAGGATTTCCCTTGGAGAGAGGCTCTTCTGGAGGA 180
DB 151 CCCCAAGAGTTGCCCGAGATGAGAGGATTTCCCTTGGAGAGAGGCTCTTCTGGAGGA 210
QY 181 GATGACCCACTGAGGAGAGGATGCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
DB 211 GATGACCCACTGAGGAGAGGATGCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 270
QY 241 CCAACCCGAGAGAGATTAATCTTGAAGAGAGATTTACTCTGAGAGAGAGATTTACT 300
DB 271 CCAACCCGAGAGAGATTTACTCTGAGAGAGATTTACTCTGAGAGAGAGATTTACT 330
QY 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATTTACTACTGTT 360
DB 331 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATTTACTACTGTT 390
QY 361 GAGGCTCTGAGAGATTTCTCAAGAACCCCAAGATTAATGCCACAGGAGCAAAAGAGGAGT 420
DB 391 GAGGCTCTGAGAGATTTCTCAAGAACCCCAAGATTAATGCCACAGGAGCAAAAGAGGAGT 450
QY 421 GACCAAGATCATTTGGGCTATGAGAGGCAACCCGCTGAGCCCGGAGTGTCCCAAGCTGC 480
DB 451 GACCAAGATCATTTGGGCTATGAGAGGCAACCCGCTGAGCCCGGAGTGTCCCAAGCTGC 510
QY 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTGCGGCTTCTGCCCCGAGC 540
DB 511 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTGCGGCTTCTGCCCCGAGC 570
QY 541 CTGCGCGCTTCTGAGAACTCTCTGAGCTTCCAGCTCCCGGCTTCCAGAACTGCGCTGCGC 600
DB 571 CTGCGCGCTTCTGAGAACTCTCTGAGCTTCCAGCTCCCGGCTTCCAGAACTGCGCTGCGC 630

QY 601 AACCAATGCGCAAGTGTGCAACTGACCTGCTCCTGAGCTAGAGATGAGCTTGAGTCCC 660
DB 631 AACCAATGCGCAAGTGTGCAACTGACCTGCTCCTGAGCTAGAGATGAGCTTGAGTCCC 690
QY 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTGTCTCCGAGC 720
DB 691 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTGTCTCCGAGC 750
QY 721 TCGAGCACTGTTGAAAGGCCACCGTTTCCCTGCGAGATTCAGTGTGTTCACTGACG 780
DB 751 TCGAGCACTGTTGAAAGGCCACCGTTTCCCTGCGAGATTCAGTGTGTTCACTGACG 810
QY 781 ACCGCTTTGCCAGATTGACAGAGGCTTGGAGGCGCCGAGAGGCTGAGCGCTGTGCGC 840
DB 811 ACCGCTTTGCCAGATTGACAGAGGCTTGGAGGCGCCGAGAGGCTGAGCGCTGTGCGC 870
QY 841 GCGTTTCTGAGAGAGGCGCCGAGAGAAACAGTGTCTTGAAGAGTGTGCTGCTGCTTG 900
DB 871 GCGTTTCTGAGAGAGGCGCCGAGAGAAACAGTGTCTTGAAGAGTGTGCTGCTGCTTG 930
QY 901 GAAAGAAATCGCTGAGAGAGCTCAGAGACTCAGAGTCCAGAGACTGACATATCTGACATC 960
DB 931 GAAAGAAATCGCTGAGAGAGCTCAGAGACTCAGAGTCCAGAGACTGACATATCTGACATC 990
QY 961 CTGCGCTCTGACTGACGCGCTTACTTCCATATGAGAGGCTCTTGACTACACCGCCTGT 1020
DB 991 CTGCGCTCTGACTGACGCGCTTACTTCCATATGAGAGGCTCTTGACTACACCGCCTGT 1050
QY 1021 GCCCAAGAGTATCTGAGCTGATGTTTAAACAGACAGTGAAGTCTGAGGCTTAAGAGCTC 1080
DB 1051 GCCCAAGAGTATCTGAGCTGATGTTTAAACAGACAGTGAAGTCTGAGGCTTAAGAGCTC 1110
QY 1081 CACAACCTCTCTGACACCTGTGAGGACCTGTGATCTCTCGGCTACACAGTGAACCTCCGA 1140
DB 1111 CACAACCTCTCTGACACCTGTGAGGACCTGTGATCTCTCGGCTACACAGTGAACCTCCGA 1170
QY 1141 GCGAGCAGCCTTTGAATGAGGCGAGTGAAGGCTCTTCTGCTGAGAGTGAACAGC 1200
DB 1171 GCGAGCAGCCTTTGAATGAGGCGAGTGAAGGCTCTTCTGCTGAGAGTGAACAGC 1230
QY 1201 AGTCTCGAGGCTGCTGAGCAGTCAAGCTGAATTCGAGCGGCTGCTGAGTGAACCTCTA 1260
DB 1231 AGTCTCGAGGCTGCTGAGCAGTCAAGCTGAATTCGAGCGGCTGCTGAGTGAACCTCTA 1290
QY 1261 GCCCTGTTTTTGGCTCTTTTGTCTGTCAACAGCGTCCGCTCTTGTGCAATGAGA 1320
DB 1291 GCCCTGTTTTTGGCTCTTTTGTCTGTCAACAGCGTCCGCTCTTGTGCAATGAGA 1350
QY 1321 AGGCAAGCAGAGAGGAGAACCAAGAGGCTGTGAGCTACCGCCAGCAGAGAGTACCGAG 1380
DB 1351 AGGCAAGCAGAGAGGAGAACCAAGAGGCTGTGAGCTACCGCCAGCAGAGAGTACCGAG 1410
QY 1381 ACTGAGAGCTGAGAGGCTGATCTTGAAGAAATGTGAAGAACCCAGCAGAGAGGATCTGAGG 1440
DB 1411 ACTGAGAGCTGAGAGGCTGATCTTGAAGAAATGTGAAGAACCCAGCAGAGAGGATCTGAGG 1470
QY 1441 GAGCCCGGTAACTGTCTGTCTGTCTCAATATGCACTTCTTTTAACTGCAAGAAATT 1500
DB 1471 GAGCCCGGTAACTGTCTGTCTGTCTCAATATGCACTTCTTTTAACTGCAAGAAATT 1530
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1531 TTTTAAATTAATTTTAAAT 1552
RESULT 13
ACC72730
ID ACC72730 standard; cDNA; 1552 BP.
XX ACC72730;
XX
DT 09-JUL-2003 (first entry)

XX Human cancer related protein encoding cDNA SEQ ID NO:69.
XX Human; cancer; diagnosis; screening; modulator; leukaemia; ischaemia;
XX heart disease; atherosclerosis; endometriosi; gene; ss.
XX Homo sapiens.
XX MO2003025138-A2.
XX
XX 27-MAR-2003.
XX
XX 17-SEP-2002; 2002WO-US029560.
XX
XX 17-SEP-2001; 2001US-0323469P.
XX 20-SEP-2001; 2001US-0323887P.
XX 13-NOV-2001; 2001US-0350666P.
XX 08-FEB-2002; 2002US-0355145P.
XX 08-FEB-2002; 2002US-0355257P.
XX 12-APR-2002; 2002US-0372246P.
XX
XX (EOSB-) EOS BIOTECHNOLOGY INC.
XX
XX Afar D, Aziz N, Glen KC, Hevezi PA, Mack DH, Wilson KE;
XX Zlotnick A;
XX
XX WPI, 2003-354600/33.
XX P-PSDB; ABR58595.
XX
XX New genes that are up-regulated or down-regulated in cancers, useful as
XX markers for diagnosing e.g. cancer, ischemia or heart disease, or as
XX therapeutic targets for screening drugs for treating these diseases.
XX
XX Claim 8; Page 662; 767tp; English.
XX
XX The present invention describes an isolated nucleic acid molecule, which
XX comprises the sequence of any of the genes that are up-regulated or down-
XX regulated in specific cancers (e.g. about 1031 genes up-regulated in
XX acute lymphocytic leukemia). ACC72641 to ACC72860 represent cancer
XX related gene nucleotide sequences which encode the proteins given in
XX ABR58521 to ABR58709. Also described: (1) determining the presence or
XX absence of a pathological cell in a patient; (2) an expression vector
XX comprising a nucleic acid molecule described above; (3) a host cell
XX comprising the vector; (4) an isolated polypeptide, which is encoded by
XX the nucleic acid; (5) an antibody that specifically binds the polypeptide
XX of (4); (6) specifically targeting a compound to a pathological cell in a
XX patient by administering to the patient the antibody above; and (7) a
XX drug screening assay. The nucleic acid is useful as diagnostic markers or
XX therapeutic targets. In particular, the nucleic acid is useful for
XX diagnosing a pathology, e.g. cancer (e.g. cancer of the bone marrow,
XX bladder, brain, breast, cervix, colon/rectum, kidney, lung, ovary,
XX pancreas, prostate, skin and uterus), wounds, ischemia, heart diseases,
XX atherosclerosis and endometriosi. The nucleic acid is also useful in
XX drug screening, particularly for identifying agents for treating these
XX pathologies
XX
XX Sequence 1552 BP, 302 A, 471 C, 461 G, 318 T, 0 U; 0 Other;
SQ
Query Match 100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1552; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGTCAGCGGATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCGGCC 60
DB 31 ACAGTCAGCGGATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCGGCC 90
QY 61 CCGTCCTCAGGCTCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 91 CCGTCCTCAGGCTCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
QY 121 CCCCAAGGTTGGCCCGGATGCAAGAGATTCCCTTGGAGAGAGGCTTTCTGGGAA 180
DB 151 CCCCAAGGTTGGCCCGGATGCAAGAGATTCCCTTGGAGAGAGGCTTTCTGGGAA 210

QY 181 GATGACCACTGGGCGAGAGGATCTGCCAGTGAAGAGAGATTACCCAGAGAGAGAT 240
DB 211 GATGACCACTGGGCGAGAGGATCTGCCAGTGAAGAGAGATTACCCAGAGAGAGAT 270
QY 241 CCAACCGGAGAGAGATCTTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 271 CCAACCGGAGAGAGATCTTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
QY 301 GAAGTTAAGCTTAATCAGAAAGAGGCTCCCTGAATTGAGAGATCTTACTACTGTT 360
DB 331 GAAGTTAAGCTTAATCAGAAAGAGGCTCCCTGAATTGAGAGATCTTACTACTGTT 390
QY 361 GAGGCTCTGAGATCTCAAGAACCCGAGAAATTAATGCCACAGGAGCAAGAGAGGAGAT 420
DB 391 GAGGCTCTGAGATCTCAAGAACCCGAGAAATTAATGCCACAGGAGCAAGAGAGGAGAT 450
QY 421 GACAGAGTCATTTGGGCTATGAGGCGACCCGCTGCGCCCGGCTGCTCCAGGCTGC 480
DB 451 GACAGAGTCATTTGGGCTATGAGGCGACCCGCTGCGCCCGGCTGCTCCAGGCTGC 510
QY 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCTGAGCTGCGCTTCTGCGCGGC 540
DB 511 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCTGAGCTGCGCTTCTGCGCGGC 570
QY 541 CTGGCGCGCGCTTCAAGTCCCGGTGATATCCGCCCTGAGCTGCGCTTCTGCGCGGC 600
DB 571 CTGGCGCGCGCTTCAAGTCCCGGTGATATCCGCCCTGAGCTGCGCTTCTGCGCGGC 630
QY 601 AACCAATGACCAAGTGTGCACTGACCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCT 660
DB 631 AACCAATGACCAAGTGTGCACTGACCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCT 690
QY 661 GGGCGGAGATCCGGGCTTGTGAGCTGATCTGCACTGGGGGCTGCAAGTGTCTGGGC 720
DB 691 GGGCGGAGATCCGGGCTTGTGAGCTGATCTGCACTGGGGGCTGCAAGTGTCTGGGC 750
QY 721 TGGGAGCACTGTGGAAGGCAAGCTTCCCTGCGGAGATCAAGTGTGCTTCACTGAC 780
DB 751 TGGGAGCACTGTGGAAGGCAAGCTTCCCTGCGGAGATCAAGTGTGCTTCACTGAC 810
QY 781 ACCGCTTTGCAAGTTGACAGAGGCTTGGGGGCTGCGGAGGCTGCGCTGCTGCTGCT 840
DB 811 ACCGCTTTGCAAGTTGACAGAGGCTTGGGGGCTGCGGAGGCTGCGCTGCTGCTGCT 870
QY 841 GCGTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCACTTGTCTGCTGCT 900
DB 871 GCGTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCACTTGTCTGCTGCT 930
QY 901 GAAAGAAATGCTGAGAGAGGCTTCAAGACTCAAGTGTGCTGCTGCTGCTGCTGCTGCT 960
DB 931 GAAAGAAATGCTGAGAGAGGCTTCAAGACTCAAGTGTGCTGCTGCTGCTGCTGCTGCT 990
QY 961 CTGCGCTTGAATGAGGCTTCAATATGAGGAGGCTTCTGCTGCTGCTGCTGCTGCTGCT 1020
DB 991 CTGCGCTTGAATGAGGCTTCAATATGAGGAGGCTTCTGCTGCTGCTGCTGCTGCTGCT 1050
QY 1021 GCCCAGGATGATCTGATGATGCTGTTTAAACAGACAGTATGCTGATGCTTAAACAGCTC 1080
DB 1051 GCCCAGGATGATCTGATGATGCTGTTTAAACAGACAGTATGCTGATGCTTAAACAGCTC 1110
QY 1081 CACACCTTCTGACACCTCTGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
DB 1111 CACACCTTCTGACACCTCTGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1170
QY 1141 GCGAGCAGCCTTTGATGAGGAGGCTTCAATATGAGGAGGCTTCTGCTGCTGCTGCTGCT 1200
DB 1171 GCGAGCAGCCTTTGATGAGGAGGCTTCAATATGAGGAGGCTTCTGCTGCTGCTGCTGCT 1230
QY 1201 AGTCTCGGAGCTGCTGAGGCAAGTCAAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCT 1260
DB 1231 AGTCTCGGAGCTGCTGAGGCAAGTCAAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCT 1290

QY 1261 GCCCTGGTTTTGGCCCTTTTGGCTGCACAGAGGTGCGCTTCTGTTGAGATGAGA 1320
DB 1291 GCGCTGTTTTGGCTCTCTTTTGGCTGTCACAGAGGTGCGCTTCTGTTGAGATGAGA 1350
QY 1321 AGGACACACAGAGAGGGAACCAAGAGGAGTGTAGCTACCGCCACAGAGGTAGCCGAG 1380
DB 1351 AGGACACACAGAGAGGGAACCAAGAGGAGTGTAGCTACCGCCACAGAGGTAGCCGAG 1410
QY 1381 ACTGGAGCTTAGAGGCTGTGATCTTGGAGAAATGTGAGAGCCAGCCAGAGCATCTGAGG 1440
DB 1411 ACTGGAGCTTAGAGGCTGTGATCTTGGAGAAATGTGAGAGCCAGCCAGAGCATCTGAGG 1470
QY 1441 GGAGCCGCTAGAGCTGCTGCTGCTCATTTATGCACTTCTTTAATGCCAAGAATT 1500
DB 1471 GGAGCCGCTAGAGCTGCTGCTGCTCATTTATGCACTTCTTTAATGCCAAGAATT 1530
QY 1501 TTTTAAATAAATATTTATTAAT 1522
DB 1531 TTTTAAATAAATATTTATTAAT 1552

RESULT 14
ABZ77284
ID ABZ77284 standard; cDNA; 1552 BP.
XX
AC ABZ77284;
DT 28-MAY-2003 (first entry)
XX
DE Nucleotide sequence of human CA9 polypeptide.
XX
KW Human; angiogenesis; wound healing; retinopathy; ischemia; inflammation;
microvasculopathy; bone healing; skin inflammation; HO3; HO38; HO318;
KW follicular development; CA9; HXB; IGFBP5; HFAFP; STC1; mlg-6; SSR4;
cancer; gene; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 43..1422
FT /tag= a
FT /product= "CA9"

XX
PN MO2003010205-A1.
PD 06-FEB-2003.
XX
PF 26-JUL-2002; 2002WO-US023786.
XX
PR 26-JUL-2001; 2001US-0307600P.
PR 24-JUL-2002; 2002US-00201642.
XX
PA (UYDU-) UNIV DUKE MEDICAL CENT.
XX
PI Riggle GJ, Lal A;
XX
DR MPI: 2003-239423/23.
DR P-PSDB; ABP9744.
XX
PT Inhibiting angiogenesis for treating wound healing, retinopathy,
ischemia, inflammation, microvasculopathy, bone healing, skin
PT inflammation or follicular development by providing to a subject an
PT antisense polynucleotide.
XX
PS Claim 1; Page 47; 66p; English.
XX
CC The present sequence encodes a human CA9 polypeptide. It is used in the
method of the invention. The specification describes a method modulating
CC angiogenesis associated with wound healing, retinopathy, ischemia,
CC inflammation, microvasculopathy, bone healing, skin inflammation or
CC follicular development. The method comprises providing to a subject HO3,
CC HO38, HO318, CA9, HXB, IGFBP5, HFAFP, STC1, mlg-6 or SSR4. The methods,
CC antisense polynucleotides, polypeptides and antibodies are useful for

CC treating wound healing, retinopathy, ischemia, inflammation,
CC microvasculopathy, bone healing, skin inflammation or follicular
CC development, or cancer such as breast, colon or lung cancer, or
CC glioblastoma
XX
SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
Query Match 100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTACCGGATGCTCCCTGTCGCGCCAGCCCTGCTGCTTGTATCCCGGCC 60
DB 31 ACAGTACCGGATGCTCCCTGTCGCGCCAGCCCTGCTGCTTGTATCCCGGCC 90
QY 61 CCTGCTCAGAGCTTCACTGTGCACTGTGCTGCTCACTGTGCTTGTATGCTGTCCAT 120
DB 91 CCTGCTCAGAGCTTCACTGTGCACTGTGCTGCTCACTGTGCTTGTATGCTGTCCAT 150
QY 121 CCCAGAGTTGCCCGGATGAGAGGATTTCCCTTGGAGAGGCTCTTCTGGGAA 180
DB 151 CCCAGAGTTGCCCGGATGAGAGGATTTCCCTTGGAGAGGCTCTTCTGGGAA 210
QY 181 GATGACCCACTGGGCGAGAGGATCTGCCATGTGAAGGATTCACCCAGAGGAGGAT 240
DB 211 GATGACCCACTGGGCGAGAGGATCTGCCATGTGAAGGATTCACCCAGAGGAGGAT 270
QY 241 CCACCCGAGAGAGGATCTACTGTGAGAGGATCTACTGTGAGAGGATCTACT 300
DB 271 CCACCCGAGAGAGGATCTACTGTGAGAGGATCTACTGTGAGAGGATCTACT 330
QY 301 GAAGTTAAGCTTAATATCAAGAAAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 360
DB 331 GAAGTTAAGCTTAATATCAAGAAAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 390
QY 361 GAGGCTCTGAGAGATCTCTCAAGAAACCCAGAAATATATGCCACAGGACAAAGAGGAT 420
DB 391 GAGGCTCTGAGAGATCTCTCAAGAAACCCAGAAATATATGCCACAGGACAAAGAGGAT 450
QY 421 GACCAAGTCAATTGGCGCTATGAGGCGACCCGCTTGGCCCGGATGCCAGCCTGC 480
DB 451 GACCAAGTCAATTGGCGCTATGAGGCGACCCGCTTGGCCCGGATGCCAGCCTGC 510
QY 481 GCGGCGGCTTCCAGTCCCCGCTGAGATATCCGCCCCAGCTGCGCCTTCTGCCCCGCC 540
DB 511 GCGGCGGCTTCCAGTCCCCGCTGAGATATCCGCCCCAGCTGCGCCTTCTGCCCCGCC 570
QY 541 CTGCGCCCTCGAAGACTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 600
DB 571 CTGCGCCCTCGAAGACTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 630
QY 601 AACATGCGCACTGTGCAACTGACCCCTGCTCTGAGGCTAGAGATGCTTGGGATCC 660
DB 631 AACATGCGCACTGTGCAACTGACCCCTGCTCTGAGGCTAGAGATGCTTGGGATCC 690
QY 661 GGGCGGAGTACCGGCTCTGCACTGATGCACTGGGGGCTGCAAGTCTGCGGCC 720
DB 691 GGGCGGAGTACCGGCTCTGCACTGATGCACTGGGGGCTGCAAGTCTGCGGCC 750
QY 721 TCGAGACACTGTGGAAGGCCACGTTTCCCTGCGAGATCCAGTGTTCACCTGAGC 780
DB 751 TCGAGACACTGTGGAAGGCCACGTTTCCCTGCGAGATCCAGTGTTCACCTGAGC 810
QY 781 ACCGCTTTGCGAGAGTTGACGAGGCTTGGGGGCGCCCGGAGGCTGGCCGTTGGCC 840
DB 811 ACCGCTTTGCGAGAGTTGACGAGGCTTGGGGGCGCCCGGAGGCTGGCCGTTGGCC 870
QY 841 GCTTTTCTGAGAGAGGCGCCGGAAGAAACAGTCCCTATGAGCAGTTGCTGTCCGCTTG 900
DB 871 GCTTTTCTGAGAGAGGCGCCGGAAGAAACAGTCCCTATGAGCAGTTGCTGTCCGCTTG 930
QY 901 GAAGAAATGCTGAGAGGCTCAGAGACTCAGGTTCCAGAGCTGACATATCTGACATC 960

Db 931 GAAGAAATGCTGAGGAGAGGCTCAGAGACTCAGGTCCAGAGACTGAGCATATCTGCATTC 990
Qy 961 CTGGCCCTGACTGATGAGCGGCTACTTCCAAATATGAGGGGCTCTGACTACCGCCCTCT 1020
Db 991 CTGGCCCTGACTGATGAGCGGCTACTTCCAAATATGAGGGGCTCTGACTACCGCCCTCT 1050
Qy 1021 GCCCAGGGTGTGATCTGAGACTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
Db 1051 GCCCAGGGTGTGATCTGAGACTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTTGCGCTACAGCTGAACCTTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTTGCGCTACAGCTGAACCTTCCGA 1170
Qy 1141 GGGAGCGACCTTTGAAATGGGGAGTGAATGAGGCTCTCCCTCCGCTGAGAGGAGCAGC 1200
Db 1171 GGGAGCGACCTTTGAAATGGGGAGTGAATGAGGCTCTCCCTCCGCTGAGAGGAGCAGC 1230
Qy 1201 AGTCTCTGGGCTGCTGAGCCAGTCCAGCTGAATTCCTGCTGGCTGCTGAGCATCTCTA 1260
Db 1231 AGTCTCTGGGCTGCTGAGCCAGTCCAGCTGAATTCCTGCTGGCTGCTGAGCATCTCTA 1290
Qy 1261 GCGCTGTGTTTTGGCCTCTTTTGTCTGTCAACAGCGTGGCGCTTCTTGTGAGATGAGA 1320
Db 1291 GCGCTGTGTTTTGGCCTCTTTTGTCTGTCAACAGCGTGGCGCTTCTTGTGAGATGAGA 1350
Qy 1321 AGGCGACAGAGAGGGGAAACCAAGGGGTGTGAGTACCCGCCAGAGAGTGAAGCCGAG 1380
Db 1351 AGGCGACAGAGAGGGGAAACCAAGGGGTGTGAGTACCCGCCAGAGAGTGAAGCCGAG 1410
Qy 1381 ACTGAGGCTTGAAGGCTGTGATCTTGGAGATGTGAGAGCCAGCCAGAGGACTCTGAGGG 1440
Db 1411 ACTGAGGCTTGAAGGCTGTGATCTTGGAGATGTGAGAGCCAGCCAGAGGACTCTGAGGG 1470
Qy 1441 GGAGCGGATGACTGTCTGTCTCTCTCATTATGCACTTCTTTTAACTGCCAAGAAAT 1500
Db 1471 GGAGCGGATGACTGTCTGTCTCTCTCATTATGCACTTCTTTTAACTGCCAAGAAAT 1530
Qy 1501 TTTTAAATTAATATTTATTAAT 1522
Db 1531 TTTTAAATTAATATTTATTAAT 1552

RESULT 15
ADN39704
ID ADN39704 standard; cDNA, 1552 BP.
XX
AC ADN39704;
XX
DT 17-JUN-2004 (first entry)
XX
DE Cancer/angiogenesis/fibrosis-related nucleic acid, SEQ ID NO: C76.
XX
KW Human; differential expression; cancer; angiogenic disorder;
XX fibrotic disorder; psoriasis; ischemia; heart disease; atherosclerosis;
XX inflammatory disease; autoimmune disease; scarring; uterine fibroid;
XX retinal neovascularization syndrome; drug screening; drug targeting;
XX wound healing; contraception; cytostatic; candiant; immunomodulatory;
XX vulnery; gene therapy; vaccine; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003042661-A2.
XX
PD 22-MAY-2003.
XX
PF 13-NOV-2002; 2002WO-US036810.
XX
PR 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.

PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-0355250P.
PR 13-FEB-2002; 2002US-0355714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-0368099P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397755P.
PR 22-JUL-2002; 2002US-0397845P.
PR 09-SEP-2002; 2002US-0409450P.
XX
XX (EOSB-) EOS BIOTECHNOLOGY INC.
XX
XX Afar D, Aziz N, Ginsburg WM, Gish KC, Glynn R, Heverzi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX
XX MPI; 2003-468649/44.
DR P-PSDB; ADN39921.
XX
XX Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
a nucleic acid in a biological sample.
XX
XX Claim 8; SEQ ID NO C76; 1385bp; English.
XX
XX The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularization syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a nucleic acid sequence of the invention.
XX
XX
SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
Query Match 100.0%; Score 1522; DB 11; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTCAGCGCGATGAGTCCCTGTGAGCCAGCCCTGGCTCTCTGTGATCCGAGCC 60
Db 31 ACAGTCAGCGCGATGAGTCCCTGTGAGCCAGCCCTGGCTCTCTGTGATCCGAGCC 90
Qy 61 CCTGTCTCAGGCGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CCTGTCTCAGGCGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
Qy 121 CCCGAGAGTGGTCCCGCGATGAGAGATTCCTCCCTGGGAGAGGCTCTTGGGGA 180
Db 151 CCCGAGAGTGGTCCCGCGATGAGAGATTCCTCCCTGGGAGAGGCTCTTGGGGA 210
Qy 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 270
Qy 241 CCAACCGGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 300
Db 271 CCAACCGGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 330

QY 301 GAAGTTAAGCTTAATCAGAAAGAGGCTCCCTGAAATTAGAGATCTACTACTGTT 360
DB 331 GAAGTTAAGCTTAATCAGAAAGAGGCTCCCTGAAATTAGAGATCTACTACTGTT 390
QY 361 GAGGCTCTGAGATCTCAGAAACCCAGATATATGCCAGAGGCAAGAAAGGAGAT 420
DB 391 GAGGCTCTGAGATCTCAGAAACCCAGATATATGCCAGAGGCAAGAAAGGAGAT 450
QY 421 GACCAAGTCAATGCGCTATGAGAGCGACCCGCTGAGCCCGGAGTCTCCAGCTGC 480
DB 451 GACCAAGTCAATGCGCTATGAGAGCGACCCGCTGAGCCCGGAGTCTCCAGCTGC 510
QY 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCGCCAGCTGCGCCCTTCTGCGCGCC 540
DB 511 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCGCCAGCTGCGCCCTTCTGCGCGCC 570
QY 541 CTGCGCCCTGGAATCTCTGAGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGCGC 600
DB 571 CTGCGCCCTGGAATCTCTGAGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGCGC 630
QY 601 AACCAATGSCCAAGTGTGCAACTGACCTGCTCTGAGCTAGAGATGAGCTTGGGTCC 660
DB 631 AACCAATGSCCAAGTGTGCAACTGACCTGCTCTGAGCTAGAGATGAGCTTGGGTCC 690
QY 661 GGGCGGAGATACCGGCTCTGAGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGCG 720
DB 691 GGGCGGAGATACCGGCTCTGAGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGCG 750
QY 721 TCGAGACACACTGTGAGAGGCAACGCTTCCCTGCGAGATCCAGTGTGCACTCAGC 780
DB 751 TCGAGACACACTGTGAGAGGCAACGCTTCCCTGCGAGATCCAGTGTGCACTCAGC 810
QY 781 ACCGCTTTTGGCAGAGTTGACAGAGGCTTGGGCGCTCCGAGAGGCTTGGGTGCGC 840
DB 811 ACCGCTTTTGGCAGAGTTGACAGAGGCTTGGGCGCTCCGAGAGGCTTGGGTGCGC 870
QY 841 GCTTTCTGAGAGGAGGCGCGAGAAACAGTGCCTATGAGAGTGTGCTGCTG 900
DB 871 GCTTTCTGAGAGGAGGCGCGAGAAACAGTGCCTATGAGAGTGTGCTGCTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGGTCCAGAGCTGAGCATATCTGACATC 960
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGGTCCAGAGCTGAGCATATCTGACATC 990
QY 961 CTGCTCTGATCTGAGCGGCTTACTTCCAAATATGAGGAGTCTTGTACTACACCGCTGT 1020
DB 991 CTGCTCTGATCTGAGCGGCTTACTTCCAAATATGAGGAGTCTTGTACTACACCGCTGT 1050
QY 1021 GCCCAGGAGTGTATCTGAGTGTGTTTACAGAGATGATGCTGAGTCTAAGCAGCTC 1080
DB 1051 GCCCAGGAGTGTATCTGAGTGTGTTTACAGAGATGATGCTGAGTCTAAGCAGCTC 1110
QY 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGTAATCTGAGTAACTTCCGA 1140
DB 1111 CACACCTCTCTGACACCTCTGTGGGAGCTGTGTAATCTGAGTAACTTCCGA 1170
QY 1141 GCGAGCGAGCTTTGAAATGGGCGAGTGAATGAGGCTCTTCTGCTGAGTGAAGCAGC 1200
DB 1171 GCGAGCGAGCTTTGAAATGGGCGAGTGAATGAGGCTCTTCTGCTGAGTGAAGCAGC 1230
QY 1201 AGTCTCTGGGCTGTGAGCAGTCCAGTGAATTCCTGCTGAGTGTGAGCATCTCA 1260
DB 1231 AGTCTCTGGGCTGTGAGCAGTCCAGTGAATTCCTGCTGAGTGTGAGCATCTCA 1290
QY 1261 GCGCTGTGTTTGGCTCTCTTTTGTGTGCTCACAGAGTGTGCTTCTGTGAGATGAGA 1320
DB 1291 GCGCTGTGTTTGGCTCTCTTTTGTGTGCTCACAGAGTGTGCTTCTGTGAGATGAGA 1350
QY 1321 AGGCAAGCAAGAAAGGAGAAACAAAGGAGTGTGAGTACCGCCAGAGAGTACCGAG 1380
DB 1351 AGGCAAGCAAGAAAGGAGAAACAAAGGAGTGTGAGTACCGCCAGAGAGTACCGAG 1410
QY 1381 ACTGAGCTTGAAGCTGATCTTGGAGATGTGAGAAAGCAGCCAGAGGCACTGAGAGG 1440

DB 1411 ACTGAGCTTGAAGCTGATCTTGGAGAAATGTGAGAAAGCCAGAGGCACTGAGAGG 1470
QY 1441 GAGCCGAGTAACTGTCTGTCTGCTCATTAATGCCACTTCTTTAACTGCCAGAAAT 1500
DB 1471 GAGCCGAGTAACTGTCTGTCTGCTCATTAATGCCACTTCTTTAACTGCCAGAAAT 1530
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAAT 1552

Search completed: February 6, 2005, 07:47:18
Job time : 737 secs

QY 1 AAGTACGCGCATGAGCTCCCTGTGTCAGCCGCTGAGCTCCCTGTGTATCCCGAGC 60
DB 1 AAGTACGCGCATGAGCTCCCTGTGTCAGCCGCTGAGCTCCCTGTGTATCCCGAGC 60
QY 61 CCTGTCCAGAGCTCTGTCAGTCTGCTGTCTGCTGTCTGTGTGTATGCTGTCTCAT 120
DB 61 CCTGTCCAGAGCTCTGTCAGTCTGCTGTCTGCTGTCTGTGTGTATGCTGTCTCAT 120
QY 121 CCCCAAGAGTGTGCTCCGAGTGCAGAGAGATTTCCCTGTGAGAGAGAGCTCTTCTGAGGAA 180
DB 121 CCCCAAGAGTGTGCTCCGAGTGCAGAGAGATTTCCCTGTGAGAGAGAGCTCTTCTGAGGAA 180
QY 181 GATGACCACTGTGGCGAGAGAGATCTTCCCACTGAAAGAGATTTACCCAGAGAGAGAT 240
DB 181 GATGACCACTGTGGCGAGAGAGATCTTCCCACTGAAAGAGATTTACCCAGAGAGAGAT 240
QY 241 CCAACCGGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 300
DB 241 CCAACCGGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGAGCTCCCTGAGTTAGAGATCTTACTACTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGAGCTCCCTGAGTTAGAGATCTTACTACTGTT 360
QY 361 GAGGCTCTGAGAGATCTTCAAGAACCCCAAGATATGCTCCCAAGAGAGAGAGAGAT 420
DB 361 GAGGCTCTGAGAGATCTTCAAGAACCCCAAGATATGCTCCCAAGAGAGAGAGAGAT 420
QY 421 GACCAAGATCATTTGAGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 421 GACCAAGATCATTTGAGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
QY 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCCGCTCCAGCTGCGCTTCTGCGCGAGC 540
DB 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCCGCTCCAGCTGCGCTTCTGCGCGAGC 540
QY 541 CTGCGCGCTTCCAGTCTGAGCTTCCAGCTTCCCGCTCCAGAGATCTGCGCTGCGC 600
DB 541 CTGCGCGCTTCCAGTCTGAGCTTCCAGCTTCCCGCTCCAGAGATCTGCGCTGCGC 600
QY 601 AACATGAGCAGATGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
DB 601 AACATGAGCAGATGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
QY 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTGTCTGCGAGC 720
DB 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTGTCTGCGAGC 720
QY 721 TGGAGACACATGTGGAAGAGCCGCTTCCCTGCGAGATCTCAAGTGTCTCACTCAAGC 780
DB 721 TGGAGACACATGTGGAAGAGCCGCTTCCCTGCGAGATCTCAAGTGTCTCACTCAAGC 780
QY 781 ACCGCTTTCAGAGTTGACAGAGGCTTGGGAGGCTGCGAGAGGCTGCGCTGTGAGCC 840
DB 781 ACCGCTTTCAGAGTTGACAGAGGCTTGGGAGGCTGCGAGAGGCTGCGCTGTGAGCC 840
QY 841 GCTTTTCTGAGAGAGGCTGCGAGAGAAACAGTGTCTATGACAGTGTCTGCTGCTG 900
DB 841 GCTTTTCTGAGAGAGGCTGCGAGAGAAACAGTGTCTATGACAGTGTCTGCTGCTG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAAGAGATCTCAAGTCTCCAGAGCTGAGACATCTGACATC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAAGAGATCTCAAGTCTCCAGAGCTGAGACATCTGACATC 960
QY 961 CTGCGCTCTGACTTCAAGCGCTTCTTCAATATGAGAGGCTCTGACTACACCGCTGT 1020
DB 961 CTGCGCTCTGACTTCAAGCGCTTCTTCAATATGAGAGGCTCTGACTACACCGCTGT 1020
QY 1021 GCCCAAGGCTGATCTGACTGTGTATTAACAGAGAGTATGCTGATGCTTAAGAGCTC 1080
DB 1021 GCCCAAGGCTGATCTGACTGTGTATTAACAGAGAGTATGCTGATGCTTAAGAGCTC 1080

QY 1081 CACACCTCTCTGACACCTGTGTGAGAGCTGTGATCTCTGAGCTACAGCTGAATCTTCCGA 1140
DB 1081 CACACCTCTCTGACACCTGTGTGAGAGCTGTGATCTCTGAGCTACAGCTGAATCTTCCGA 1140
QY 1141 GCGAGCGAGCTTTGAATGGGCGAGTGTATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
DB 1141 GCGAGCGAGCTTTGAATGGGCGAGTGTATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
QY 1201 AGTCTCGGCTGTGAGAGCAGTCAAGTGAATCTCTGAGCTGAGTGAACATCTTA 1260
DB 1201 AGTCTCGGCTGTGAGAGCAGTCAAGTGAATCTCTGAGCTGAGTGAACATCTTA 1260
QY 1261 GCGCTGTGTTTGTGCTCTCTTCTTCTGCTCAACAGCTGTGCTGCTGCTGAGATGAGA 1320
DB 1261 GCGCTGTGTTTGTGCTCTCTTCTTCTGCTCAACAGCTGTGCTGCTGCTGAGATGAGA 1320
QY 1321 AGGCGACACAGAGAGGAGACCAAGAGGAGGCTGTGAGCTACCGCCAGAGAGATGCGAG 1380
DB 1321 AGGCGACACAGAGAGGAGACCAAGAGGAGGCTGTGAGCTACCGCCAGAGAGATGCGAG 1380
QY 1381 ACTGAGCCTGAGAGCTGATCTTGAAGATGTGAGAGAGAGAGAGAGAGATCTGAGAG 1440
DB 1381 ACTGAGCCTGAGAGCTGATCTTGAAGATGTGAGAGAGAGAGAGAGAGATCTGAGAG 1440
QY 1441 GAGCGCGTAACTGTCTGTCTGCTCAATATGCCACTTCTTTAACTGCCAAGAAATT 1500
DB 1441 GAGCGCGTAACTGTCTGTCTGCTCAATATGCCACTTCTTTAACTGCCAAGAAATT 1500
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1501 TTTTAAATTAATTTTAAAT 1522

RESULT 2
US-08-477-504A-1
; Sequence 1, Application US/08477504A
; Patent No. 5972353
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (ERO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,504A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.3D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-435-2034
; TELEFAX: 415-435-0727
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1522 base pairs
; TYPE: nucleic acid

NAME: lauder, Leona L.
 REGISTRATION NUMBER: 30,863
 REFERENCE/DOCKET NUMBER: D-0021.3C
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-435-2034
 TELEFAX: 415-435-0727
 INFORMATION FOR SEQ. ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1522 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 US-08-486-756A-1

Query Match 100.0% Score 1522; DB 2; Length 1522;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGAGCTCCCTGTCGCCAGCCCTGCTCTCTGTGATCCCGGCC 60
 DB 1 ACAGTCAGCCGATGAGCTCCCTGTCGCCAGCCCTGCTCTCTGTGATCCCGGCC 60
 QY 61 CCTGCTCAAGGCTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
 DB 61 CCTGCTCAAGGCTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
 QY 121 CCCCAAGGTTGCCCCGAGATGAGAGAGATTTCCCCCTTGGAGAGAGCTCTTCTGGAGAA 180
 DB 121 CCCCAAGGTTGCCCCGAGATGAGAGAGATTTCCCCCTTGGAGAGAGCTCTTCTGGAGAA 180
 QY 181 GATGACCACTGAGCGAGAGAGATTCGCCAAGTGAAGAGATTCACCCAGAGAGAGAT 240
 DB 181 GATGACCACTGAGCGAGAGAGATTCGCCAAGTGAAGAGATTCACCCAGAGAGAGAT 240
 QY 241 CCAACCGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAG 300
 DB 241 CCAACCGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAG 300
 QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
 DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
 QY 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAG 420
 DB 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAG 420
 QY 421 GACCAAGATCATTTGGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
 DB 421 GACCAAGATCATTTGGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
 QY 481 GCGGCGCGCTTCAAGTCCCGGATGATTCGCGCCCAAGCTGCGGCTTCTGCGCGGC 540
 DB 481 GCGGCGCGCTTCAAGTCCCGGATGATTCGCGCCCAAGCTGCGGCTTCTGCGCGGC 540
 QY 541 CTGCGCGCTTGAAGTCTTGGGCTTCCAGCTTCGCGCGCTTCCAGAACTGCGCGGC 600
 DB 541 CTGCGCGCTTGAAGTCTTGGGCTTCCAGCTTCGCGCGCTTCCAGAACTGCGCGGC 600
 QY 601 AACCAATGGCCAGATGTGCACTGACCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
 DB 601 AACCAATGGCCAGATGTGCACTGACCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
 QY 661 GGGCGGAGTACCGGCTCTGCAAGCTGATCTGCACTGGGGGGCTGCAAGTGTGCGGGC 720
 DB 661 GGGCGGAGTACCGGCTCTGCAAGCTGATCTGCACTGGGGGGCTGCAAGTGTGCGGGC 720
 QY 721 TCGAGACACACTGTGGAAGGCCACCGTTTCTGCGCGAGATCAAGTGTGCTCACTCAGC 780
 DB 721 TCGAGACACACTGTGGAAGGCCACCGTTTCTGCGCGAGATCAAGTGTGCTCACTCAGC 780

QY 781 ACCGCTTTGCCAGATGAGAGGCTTTGGGGCGCCCGGAGAGGCTTGCTGTTGGCC 840
 DB 781 ACCGCTTTGCCAGATGAGAGGCTTTGGGGCGCCCGGAGAGGCTTGCTGTTGGCC 840
 QY 841 GCGCTTCTGAGAGAGGCGCCGAGAGAAAGTGCCTATGAGACATGCTGCTGCTGCTG 900
 DB 841 GCGCTTCTGAGAGAGGCGCCGAGAGAAAGTGCCTATGAGACATGCTGCTGCTGCTG 900
 QY 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGACTGAGACATATCTGACATC 960
 DB 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGTCCAGAGACTGAGACATATCTGACATC 960
 QY 961 CTGCGCTTCTGAGATTCAGCGGCTTCCAAATATGAGGGGCTCTGATCTACACCGCTGT 1020
 DB 961 CTGCGCTTCTGAGATTCAGCGGCTTCCAAATATGAGGGGCTCTGATCTACACCGCTGT 1020
 QY 1021 GCCCAGGAGTATCTGAGTGTGTTTAAACAGACAGATGATGATGATGATGATGATGATG 1080
 DB 1021 GCCCAGGAGTATCTGAGTGTGTTTAAACAGACAGATGATGATGATGATGATGATGATG 1080
 QY 1081 CACACCTCTCTGACACCCCTGTGGGACCTGTGATCTCTGCGCTACAGCTGAACCTTCCGA 1140
 DB 1081 CACACCTCTCTGACACCCCTGTGGGACCTGTGATCTCTGCGCTACAGCTGAACCTTCCGA 1140
 QY 1141 GCGAGCAGCCTTTGAATGGGCGAGTGAATGAGGCTCTCTCTCTGCTGAGTGAACAGC 1200
 DB 1141 GCGAGCAGCCTTTGAATGGGCGAGTGAATGAGGCTCTCTCTCTGCTGAGTGAACAGC 1200
 QY 1201 AGTCTCGGAGCTGAGAGCAGCTGATGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
 DB 1201 AGTCTCGGAGCTGAGAGCAGCTGATGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
 QY 1261 GCCCTGTTTGGCTCTCTTTTGTGTCACACAGCGTGGCTTCTTGTGCAATGAGA 1320
 DB 1261 GCCCTGTTTGGCTCTCTTTTGTGTCACACAGCGTGGCTTCTTGTGCAATGAGA 1320
 QY 1321 AGGACGACAGAAAGGGAGACCAAGGGGCTGTGAGCTACCGCCAGAGAGAGTGGCCGAG 1380
 DB 1321 AGGACGACAGAAAGGGAGACCAAGGGGCTGTGAGCTACCGCCAGAGAGAGTGGCCGAG 1380
 QY 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGTGAGAGAGCAGAGAGAGATCTGAGAGG 1440
 DB 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGTGAGAGAGCAGAGAGAGATCTGAGAGG 1440
 QY 1441 GAGGCGGTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
 DB 1441 GAGGCGGTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
 QY 1501 TTTTAAATTAATTTTATTAAT 1522
 DB 1501 TTTTAAATTAATTTTATTAAT 1522

RESULT 4
 US-08-485-862B-1
 ; Sequence 1, Application US/08485862B
 ; Patent No. 5989838
 ; GENERAL INFORMATION:
 ; APPLICANT: Zavada, Jan
 ; APPLICANT: Pastorekova, Silvia
 ; APPLICANT: Pastorek, Jaromir
 ; TITLE OF INVENTION: NM Gene and Protein
 ; NUMBER OF SEQUENCES: 86
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Leona L. lauder
 ; STREET: 6 Mariposa Court
 ; CITY: Tiburon
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94920
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,862B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-485-862B-1

Query Match 100.0%; Score 1522; DB 2; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGTACGCGCATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCCGCC 60
DB 1 AAGTCAGCGCATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCCGCC 60
QY 61 CCGTCCAGGCGCTCACTGTCGAACCTGCTGTCACCTGCTTGTGATCCCTGCA 120
DB 61 CCGTCCAGGCGCTCACTGTCGAACCTGCTGTCACCTGCTTGTGATCCCTGCA 120
QY 121 CCCAGAGGTTGCCCGGATGACAGAGATTCCTCCCTGGAGAGGCTCTTCTGGGAA 180
DB 121 CCCAGAGGTTGCCCGGATGACAGAGATTCCTCCCTGGAGAGGCTCTTCTGGGAA 180
QY 181 GATGACCACTGGGCGAGAGAGATTCGCCAGTGAAGAGATTCACTCAGAGAGAGAT 240
DB 181 GATGACCACTGGGCGAGAGAGATTCGCCAGTGAAGAGATTCACTCAGAGAGAGAT 240
QY 241 CCAACCGGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 300
DB 241 CCAACCGGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
QY 361 GAAGCTCTGAGAGATCTCAAGAACCCCAAGATTAATGCCCAAGGACAAAGAGGAGAT 420
DB 361 GAAGCTCTGAGAGATCTCAAGAACCCCAAGATTAATGCCCAAGGACAAAGAGGAGAT 420
QY 421 GACCAAGTCAATTTGGGCTATGAGAGAGACCCGCTTGGCCCGGGTGTCCCAAGCTTC 480
DB 421 GACCAAGTCAATTTGGGCTATGAGAGAGACCCGCTTGGCCCGGGTGTCCCAAGCTTC 480
QY 481 GCGGCGCGCTTCCAGTCCCGGATGATCCCGCCAGCTCGCCCTTCTGCGCGGCC 540
DB 481 GCGGCGCGCTTCCAGTCCCGGATGATCCCGCCAGCTCGCCCTTCTGCGCGGCC 540
QY 541 CTGCGCGCGCTTCCAGTCCCGGATGATCCCGCCAGCTCGCCCTTCTGCGCGGCC 600
DB 541 CTGCGCGCGCTTCCAGTCCCGGATGATCCCGCCAGCTCGCCCTTCTGCGCGGCC 600

QY 601 AACAAATGCGCAGATGTCAGCTGACCTGCTCCCTGAGCTAGAGATGCTGAGTCCC 660
DB 601 AACAAATGCGCAGATGTCAGCTGACCTGCTCCCTGAGCTAGAGATGCTGAGTCCC 660
QY 661 GGGCGGAGTACCGGCTCTGCACTGCACTGCACTGGGGGCTGCAAGTGTCTCGGCC 720
DB 661 GGGCGGAGTACCGGCTCTGCACTGCACTGCACTGGGGGCTGCAAGTGTCTCGGCC 720
QY 721 TCGGAGCACAATGAGAGGCGCAACGTTTCCCTGCGAGATCCAGTGGTTCAACCTCAGC 780
DB 721 TCGGAGCACAATGAGAGGCGCAACGTTTCCCTGCGAGATCCAGTGGTTCAACCTCAGC 780
QY 781 ACCGCTTTGCGAGATTGACAGAGGCTTGGGCGCCCGGAGGCTGCGCTGTTGCGC 840
DB 781 ACCGCTTTGCGAGATTGACAGAGGCTTGGGCGCCCGGAGGCTGCGCTGTTGCGC 840
QY 841 GCTTTCTGAGAGAGGCGCGGAGAGAAACAAGTCTTATGACAGTGTCTGCTGCTTG 900
DB 841 GCTTTCTGAGAGAGGCGCGGAGAGAAACAAGTCTTATGACAGTGTCTGCTGCTTG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGCTCAGGTCCTCAGAGCTGAGCATCTGCACTC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGCTCAGGTCCTCAGAGCTGAGCATCTGCACTC 960
QY 961 CTGCTCTGACTTGAACCGCTTCAATATGAGAGGCTCTGACTACACCGCTCTGT 1020
DB 961 CTGCTCTGACTTGAACCGCTTCAATATGAGAGGCTCTGACTACACCGCTCTGT 1020
QY 1021 GCCAGAGGTCATCTGACCTGTTTAAACAGACAGTATGCTGATCTAAGCATCTC 1080
DB 1021 GCCAGAGGTCATCTGACCTGTTTAAACAGACAGTATGCTGATCTAAGCATCTC 1080
QY 1081 CACACCTCTGACACCTGTCGAGGCTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
DB 1081 CACACCTCTGACACCTGTCGAGGCTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
QY 1141 GCGAGCAGCTTTGAATGAGGAGTGAAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
DB 1141 GCGAGCAGCTTTGAATGAGGAGTGAAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
QY 1201 AGTCTCGGCTGTCAGGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 1260
DB 1201 AGTCTCGGCTGTCAGGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 1260
QY 1261 GCGCTGTTTGGCTCTCTTTTGTCTGCAACAGCTGCGCTTCTTGTGAGATGAGA 1320
DB 1261 GCGCTGTTTGGCTCTCTTTTGTCTGCAACAGCTGCGCTTCTTGTGAGATGAGA 1320
QY 1321 AGCAGCAGAGAGGAGAAACAAAGGAGGTCAGCTACCGCCAGAGAGGTAAGCCGAG 1380
DB 1321 AGCAGCAGAGAGGAGAAACAAAGGAGGTCAGCTACCGCCAGAGAGGTAAGCCGAG 1380
QY 1381 ACTGAGCTTGAAGCTGATCTTGAAGATGAGAGCCAGCAGAGGATCTGAGGG 1440
DB 1381 ACTGAGCTTGAAGCTGATCTTGAAGATGAGAGCCAGCAGAGGATCTGAGGG 1440
QY 1441 GAGGCGGTTAATCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 GAGGCGGTTAATCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 TTTTAAATTAATTTATTAAT 1522
DB 1501 TTTTAAATTAATTTATTAAT 1522

RESULT 5
US-08-787-739-1
Sequence 1, Application US/08787739
Patent No. 6027887
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir

TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street, Suite 610
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/787,739
FILING DATE: 24-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,756
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/481,658
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,862
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,863
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/487,077
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.4
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-787-739-1

Query Match 100.0%; Score 1522; DB 3; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGCTCCCTGTGCCCCAGCCCTGTGCTCTCTGTGATGCCGACC 60
DB 1 AAGATGACGCGATGCTCCCTGTGCCCCAGCCCTGTGCTCTCTGTGATGCCGACC 60
QY 61 CCTGCTCAGGCTCTCACTGTGCAACTGTGCTGTCACTGTGCTCTTCTGTAGTCTGTCCAT 120
DB 61 CCTGCTCAGGCTCTCACTGTGCAACTGTGCTGTCACTGTGCTCTTCTGTAGTCTGTCCAT 120
QY 121 CCCGAGAGGTTCCCGGATGAGAGATTTCCCTTTGGAGAGAGGCTCTTTCTGGGAA 180
DB 121 CCCGAGAGGTTCCCGGATGAGAGATTTCCCTTTGGAGAGAGGCTCTTTCTGGGAA 180
QY 181 GATGACCCCACTGGGCGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240

DB 181 GATGACCCCACTGGGCGAGAGATTTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 300
DB 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 300
QY 301 GAGGTTAAGCCCTTAATCAAGAAAGAGGCTCCCTGAAGTTAGAGATCTACCTCTGT 360
DB 301 GAGGTTAAGCCCTTAATCAAGAAAGAGGCTCCCTGAAGTTAGAGATCTACCTCTGT 360
QY 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATAATGCCACAGGAGCAAAAGAGGAT 420
DB 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATAATGCCACAGGAGCAAAAGAGGAT 420
QY 421 GACCAAGTCAATTGGCGTATGAGAGCGACCCGCTGCGCCCGGCTGTCCACGCTGC 480
DB 421 GACCAAGTCAATTGGCGTATGAGAGCGACCCGCTGCGCCCGGCTGTCCACGCTGC 480
QY 481 GGGGCGGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTTCGCGCTTCTGCCCCGCC 540
DB 481 GGGGCGGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTTCGCGCTTCTGCCCCGCC 540
QY 541 CTGGCCCCCTGGAATCTCTGAGGCTTCCAGCTCCCGGCTCCCGAATCTGCGCTGCGC 600
DB 541 CTGGCCCCCTGGAATCTCTGAGGCTTCCAGCTCCCGGCTCCCGAATCTGCGCTGCGC 600
QY 601 AACCAATGGCCACAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGTCTGGGTCC 660
DB 601 AACCAATGGCCACAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGTCTGGGTCC 660
QY 661 GGGCGGAGTACCGGCTCTGAGTGTGATGCACTGGGGGGCTGCAAGTCTCCCGGAC 720
DB 661 GGGCGGAGTACCGGCTCTGAGTGTGATGCACTGGGGGGCTGCAAGTCTCCCGGAC 720
QY 721 TCGAGCACTGTGGAAGGCAACCGTTCCCTGCGAGATCAAGTGTTCACCTCAGC 780
DB 721 TCGAGCACTGTGGAAGGCAACCGTTCCCTGCGAGATCAAGTGTTCACCTCAGC 780
QY 781 ACCGCTTGTGCAAGTGTGAGAGGCTTGGGCGCCCGGAGAGGCTTGGCGTGTGACC 840
DB 781 ACCGCTTGTGCAAGTGTGAGAGGCTTGGGCGCCCGGAGAGGCTTGGCGTGTGACC 840
QY 841 GCTTCTGAGAGAGGCGCCGAGAAACAGTGTCTATGAGCAGTGTCTGTGCTTG 900
DB 841 GCTTCTGAGAGAGGCGCCGAGAAACAGTGTCTATGAGCAGTGTCTGTGCTTG 900
QY 901 GAAGAAATCGCTGAGAGGCTCAGAGACTCAGGTCCTCAGACTGACATATCTGCACTC 960
DB 901 GAAGAAATCGCTGAGAGGCTCAGAGACTCAGGTCCTCAGACTGACATATCTGCACTC 960
QY 961 CTGCTCTGACTTCAAGCGCTCACTTCCAAATATGAGGGGTCTGTGACTACACCGCTGT 1020
DB 961 CTGCTCTGACTTCAAGCGCTCACTTCCAAATATGAGGGGTCTGTGACTACACCGCTGT 1020
QY 1021 GCCAGAGGTGCATCTGAGTGTGTTAACAAGACAGTGTGAGTGTGAAGAGCTC 1080
DB 1021 GCCAGAGGTGCATCTGAGTGTGTTAACAAGACAGTGTGAGTGTGAAGAGCTC 1080
QY 1081 CACACCTCTCTGACACCTGTGAGGACTGTGTGACTCTCGGCTACACAGCTAACTTCCGA 1140
DB 1081 CACACCTCTCTGACACCTGTGAGGACTGTGTGACTCTCGGCTACACAGCTAACTTCCGA 1140
QY 1141 GCGAGCAGCTTGTGAATGAGGAGTATTAAGGCTCTCTTCCCTGCTGAGTGAACAGC 1200
DB 1141 GCGAGCAGCTTGTGAATGAGGAGTATTAAGGCTCTCTTCCCTGCTGAGTGAACAGC 1200
QY 1201 AGTCTGAGGCTGAGGAGCTCAGCTCAAGTGAATTCGCGCTGAGTGTGAGATCTCTA 1260
DB 1201 AGTCTGAGGCTGAGGAGCTCAGCTCAAGTGAATTCGCGCTGAGTGTGAGATCTCTA 1260
QY 1261 GCGCTGCTTGTGAGCTCTTCTTGTGCTGCAACAGCGTCCGCTTCTGTGACAGTGA 1320

Db 1261 GCCCTGTTTTGGCCCTCTCTTTTGTGTCACCAAGGCTGCTCTTGTGAGATAGA 1320
QY 1321 AGGCACACAGAGAGGAAACCAAGGGGGTGTAGCTACCGCCAGAGAGTACCGAG 1380
Db 1321 AGGCACACAGAGAGGAAACCAAGGGGGTGTAGCTACCGCCAGAGAGTACCGAG 1380
QY 1381 ACTGAGCTTAGAGGCTGTATCTTGGAGATGTAGAGAGCCAGAGCATCTAGAGG 1440
Db 1381 ACTGAGCTTAGAGGCTGTATCTTGGAGATGTAGAGAGCCAGAGCATCTAGAGG 1440
QY 1441 GAGCCGGTACTGCTCTCTCTCTCATATTGCACTTCTTTAACTGCAAGAAATT 1500
Db 1441 GAGCCGGTACTGCTCTCTCTCTCATATTGCACTTCTTTAACTGCAAGAAATT 1500
QY 1501 TTTTAAATTAATTAATTAAT 1522
Db 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 6
US-08-487-077A-1
Sequence 1, Application US/08487077A
Patent No. 6069242
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (IPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,077A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3H
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ. ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-487-077A-1

Query Match 100.0%; Score 1522; DB 3; Length 1522;
Best Local Similarity 100.0%; Pctd No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGCTCCCTGTGCTCCCAAGCCCTGCTCTCTGTGTATCCCGGCC 60
Db 1 ACAGTCAGCCGATGCTCCCTGTGCTCCCAAGCCCTGCTCTCTGTGTATCCCGGCC 60

QY 61 CCGTCTCAGAGGCTCACTGAGCACTGTGTCTCACTGTCTTGTATGCTGTCCAT 120
Db 61 CCGTCTCAGAGGCTCACTGTGTCACTGTGTCTGTCTGTCTTGTATGCTGTCCAT 120
QY 121 CCCAGAGGTTGCCCGGATGTGAGAGATTTCCCTCTGGAGAGAGCTCTTCTGGAGAA 180
Db 121 CCCAGAGGTTGCCCGGATGTGAGAGATTTCCCTCTGGAGAGAGCTCTTCTGGAGAA 180
QY 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTTACCCAGAGAGAGAT 240
Db 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTTACCCAGAGAGAGAT 240
QY 241 CCAACCCGAGAGAGAGATCTACCTGGAGAGAGATCTACCTGGAGAGAGATCTACCT 300
Db 241 CCAACCCGAGAGAGAGATCTACCTGGAGAGAGATCTACCTGGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACTGT 360
Db 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACTGT 360
QY 361 GAGGCTCTGAGATCTCAAGAACCCAGAAATATGCCCAAGAGGAGCAAGAGAGGAT 420
Db 361 GAGGCTCTGAGATCTCAAGAACCCAGAAATATGCCCAAGAGGAGCAAGAGAGGAT 420
QY 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCGCTGCGCCCGGGTGTCCCAAGCTGC 480
Db 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCGCTGCGCCCGGGTGTCCCAAGCTGC 480
QY 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCGCCCACTGCGCCCTTCTGCGCGGCC 540
Db 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCGCCCACTGCGCCCTTCTGCGCGGCC 540
QY 541 CTGCGCCCTTGAAGTCTCTGAGCTTCAAGCTTCCGCGCTTCCAGACTGCGCGCTGCGC 600
Db 541 CTGCGCCCTTGAAGTCTCTGAGCTTCAAGCTTCCGCGCTTCCAGACTGCGCGCTGCGC 600
QY 601 AACCAATGSCACAGATGTGCAACTGACCCCTGCTCTGAGTGAAGTGTCTGAGGCTCCC 660
Db 601 AACCAATGSCACAGATGTGCAACTGACCCCTGCTCTGAGTGAAGTGTCTGAGGCTCCC 660
QY 661 GGGCGGAGTACCGGGCTGTGAGCTGTGACTGTGAGTGGGGAGCTGTGAGTGTGCGGAGC 720
Db 661 GGGCGGAGTACCGGGCTGTGAGCTGTGACTGTGAGTGGGGAGCTGTGAGTGTGCGGAGC 720
QY 721 TCGAGACACACTGTGAGAGGCCACCGTTTCCCTGCGAGATCAAGTGTGCACTCAAC 780
Db 721 TCGAGACACACTGTGAGAGGCCACCGTTTCCCTGCGAGATCAAGTGTGCACTCAAC 780
QY 781 ACCGCTTTTCCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGGCTGTGAGTGTGCGC 840
Db 781 ACCGCTTTTCCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGGCTGTGAGTGTGCGC 840
QY 841 GCTTTTCTGAGAGAGGCGCCGAGAAAGAACAGTGCCTATGAGACAGTGTGCTGCTG 900
Db 841 GCTTTTCTGAGAGAGGCGCCGAGAAAGAACAGTGCCTATGAGACAGTGTGCTGCTG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAGTGTCCAGAGCATATCTGCACTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAGTGTCCAGAGCATATCTGCACTC 960
QY 961 CTGCTCTGACTTCAAGCGCTTCACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Db 961 CTGCTCTGACTTCAAGCGCTTCACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
QY 1021 GCCCAGAGGATCATCTGACTGTGTTTAAACAGACAGTATGCTGAGTCTAAGAGCTC 1080
Db 1021 GCCCAGAGGATCATCTGACTGTGTTTAAACAGACAGTATGCTGAGTCTAAGAGCTC 1080
QY 1081 CACACCTCTCTGACACCTGTGAGGAGCTGTGACTCTGAGCTACAGTGAATCTTCCGA 1140
Db 1081 CACACCTCTCTGACACCTGTGAGGAGCTGTGACTCTGAGCTACAGTGAATCTTCCGA 1140

Db 961 CTGCCCTGACTGACCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Qy 1021 GCCCAGGGGTGATCTGGA CTGTGTTAAACGACAGATGCTGAGTCTAAGCAGCTC 1080
Db 1021 GCCCAGGGGTGATCTGGA CTGTGTTAAACGACAGATGCTGAGTCTAAGCAGCTC 1080
Qy 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGATCTCTGCTACAGCTGAATCTTCCGA 1140
Db 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGATCTCTGCTACAGCTGAATCTTCCGA 1140
Qy 1141 GCGACGCGACCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
Db 1141 GCGACGCGACCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
Qy 1201 AGTCCCTGGGCTGTGAGCGACGTCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTG 1260
Db 1201 AGTCCCTGGGCTGTGAGCGACGTCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTG 1260
Qy 1261 GGCCTGTGTTTGGCT 1320
Db 1261 GGCCTGTGTTTGGCT 1320
Qy 1321 AGGCGACAGAGAGGGGAAACAAAGGGGGTGTGAGCTACCGCCGACAGAGTGAAGCAG 1380
Db 1321 AGGCGACAGAGAGGGGAAACAAAGGGGGTGTGAGCTACCGCCGACAGAGTGAAGCAG 1380
Qy 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGTGAAGAACCCAGCCAGAGCATCTGAAGG 1440
Db 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGTGAAGAACCCAGCCAGAGCATCTGAAGG 1440
Qy 1441 GGAGCGGTGACTGCT 1500
Db 1441 GGAGCGGTGACTGCT 1500
Qy 1501 TTTTAAATTAATTTATTAAT 1522
Db 1501 TTTTAAATTAATTTATTAAT 1522

RESULT 8
US-08-485-049D-1
Sequence 1, Application US/08485049D
Patent No. 6204370
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,049D
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOHETICAL: NO
ANTI-SENSE: NO
US-08-485-049D-1

Query Match
Best Local Similarity 100.0%; Score 1522; DB 3; Length 1522;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTCAGCCGATGAGCTCCCTGTGCTCCGACCCCTGAGCTCCTCTGTGATCCCGGCC 60
Db 1 ACAGTCAGCCGATGAGCTCCCTGTGCTCCGACCCCTGAGCTCCTCTGTGATCCCGGCC 60
Qy 61 CCTGCTCCAGGCTCACTGTGCACTGTCTGTCACTGTCTGTCTGTCTGTCTGTCTGTCTGT 120
Db 61 CCTGCTCCAGGCTCACTGTGCACTGTCTGTCACTGTCTGTCTGTCTGTCTGTCTGTCTGT 120
Qy 121 CCCAGAGGTTGCCCGAGTGAAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGGGGAA 180
Db 121 CCCAGAGGTTGCCCGAGTGAAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGGGGAA 180
Qy 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Db 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Qy 241 CCAACCGAGAGAGAGATTTACTTGAAGAGATCTACTGAGAGAGAGATCTACTCT 300
Db 241 CCAACCGAGAGAGAGATTTACTTGAAGAGATCTACTGAGAGAGAGATCTACTCT 300
Qy 241 CCAACCGAGAGAGAGATTTACTTGAAGAGATCTACTGAGAGAGAGATCTACTCT 300
Db 241 CCAACCGAGAGAGAGATTTACTTGAAGAGATCTACTGAGAGAGAGATCTACTCT 300
Qy 301 GAAGTTAAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTCTGT 360
Db 301 GAAGTTAAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTCTGT 360
Qy 361 GAGGCTCTGAGATCTCTCAAGAACCCCAATTAATGCCACAGGAGACAAAGAGGAGAT 420
Db 361 GAGGCTCTGAGATCTCTCAAGAACCCCAATTAATGCCACAGGAGACAAAGAGGAGAT 420
Qy 421 GACCAAGTCAATGGGCTATGAGAGCCGACCCGCTGAGCCGCTGAGCTGCTGAGCTGCTG 480
Db 421 GACCAAGTCAATGGGCTATGAGAGCCGACCCGCTGAGCCGCTGAGCTGCTGAGCTGCTG 480
Qy 481 GGGGGCGCTTCAATCCCGGTGATATCCGCCCCCAGCTGCGGCTTCTGCGCCGCGC 540
Db 481 GGGGGCGCTTCAATCCCGGTGATATCCGCCCCCAGCTGCGGCTTCTGCGCCGCGC 540
Qy 541 CTGCGCCCTTGAATCTCTGAGCTTCCAGCTCCGCGCTCCCAATCTGAGCTGCTGAGCTG 600
Db 541 CTGCGCCCTTGAATCTCTGAGCTTCCAGCTCCGCGCTCCCAATCTGAGCTGCTGAGCTG 600
Qy 601 AACATGCGCACAGTGTGCACTGACCTGCTCTGAGCTGCTGAGCTGCTGAGCTGCTGAGCT 660
Db 601 AACATGCGCACAGTGTGCACTGACCTGCTCTGAGCTGCTGAGCTGCTGAGCTGCTGAGCT 660
Qy 661 GGGGGGAGTACCGGGCTCTGAGCTGCACTGCACTGAGGGGGCTGCAAGTGTCTCGGGC 720
Db 661 GGGGGGAGTACCGGGCTCTGAGCTGCACTGCACTGAGGGGGCTGCAAGTGTCTCGGGC 720
Qy 721 TCGAGACACTGTGAGAGCCACCGTTTCCCTGCGAGATCCAGTGTGTTCACTCAAGC 780
Db 721 TCGAGACACTGTGAGAGCCACCGTTTCCCTGCGAGATCCAGTGTGTTCACTCAAGC 780
Qy 781 ACCGCTTTGCAAGTTGACGAGGCTTGGGGCGCCGAGGAGGCTGAGCTGCTGTGGCC 840
Db 781 ACCGCTTTGCAAGTTGACGAGGCTTGGGGCGCCGAGGAGGCTGAGCTGCTGTGGCC 840

QY 841 GCGCTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGAGTGTGTCTGCTTG 900
DB 841 GCGCTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGAGTGTGTCTGCTTG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCCGAGGACTGAGCATCTGACAC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCCGAGGACTGAGCATCTGACAC 960
QY 961 CTGCGCTCTGACTTACGCGGCTACTTCAATATGAGGGGTCTCTGACTACCGCGCTGT 1020
DB 961 CTGCGCTCTGACTTACGCGGCTACTTCAATATGAGGGGTCTCTGACTACCGCGCTGT 1020
QY 1021 GCGCGAGGCTGCTGAGTGTGTGTTAACAGACAGTATGCTGAGTCTTACGAGCTTC 1080
DB 1021 GCGCGAGGCTGCTGAGTGTGTGTTAACAGACAGTATGCTGAGTCTTACGAGCTTC 1080
QY 1081 CACACCTCTGACACCGCTGTGAGGAGCGTGGTGAATCTCGGCTACAGTGAATCTTCCGA 1140
DB 1081 CACACCTCTGACACCGCTGTGAGGAGCGTGGTGAATCTCGGCTACAGTGAATCTTCCGA 1140
QY 1141 GCGAGCGAGCCTTGTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
DB 1141 GCGAGCGAGCCTTGTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
QY 1201 AGTCTCTGAGGCTGCTGAGGCTGCTGAGTGAATCTCTGCTGCTGCTGCTGCTGCT 1260
DB 1201 AGTCTCTGAGGCTGCTGAGGCTGCTGAGTGAATCTCTGCTGCTGCTGCTGCTGCT 1260
QY 1261 GCGCTGCTTGTGAGGCTCTCTTGTGCTGACACAGGCTGCGCTCTCTGCTGCTGCT 1320
DB 1261 GCGCTGCTTGTGAGGCTCTCTTGTGCTGACACAGGCTGCGCTCTCTGCTGCTGCT 1320
QY 1321 AGGCGAGCAGAGAGGAGAACCAAGGGGCTGTGAGTACCGCCCGAGAGAGTACCGAG 1380
DB 1321 AGGCGAGCAGAGAGGAGAACCAAGGGGCTGTGAGTACCGCCCGAGAGAGTACCGAG 1380
QY 1381 ACTGAGGCTTGAAGGCTGATCTTGTGAGATGTGAGAACCGAGAGGCTGAGAGG 1440
DB 1381 ACTGAGGCTTGAAGGCTGATCTTGTGAGATGTGAGAACCGAGAGGCTGAGAGG 1440
QY 1441 GAGCGGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1441 GAGCGGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1501 TTTTAAATTAATTTTAAAT 1522

RESULT 9

US-09-178-115-1
; Sequence 1, Application US/09178115
; Patent No. 6297041
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; FILE REFERENCE: D-0021.5A
; CURRENT APPLICATION NUMBER: US/09/178,115
; EARLIER APPLICATION NUMBER: 09/177,776
; EARLIER APPLICATION NUMBER: 08/787,739
; EARLIER FILING DATE: 1997-01-24
; EARLIER APPLICATION NUMBER: 08/485,049
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/486,756
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/477,504
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/481,658
; EARLIER FILING DATE: 1995-06-07

EARLIER APPLICATION NUMBER: 08/485,862
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,863
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/487,077
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/260,190
EARLIER FILING DATE: 1994-06-15
EARLIER APPLICATION NUMBER: 08/177,093
EARLIER FILING DATE: 1993-12-30
EARLIER APPLICATION NUMBER: 07/964,589
EARLIER FILING DATE: 1993-10-21
EARLIER APPLICATION NUMBER: PV-709-92
EARLIER FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 1522
TYPE: DNA
ORGANISM: HUMAN
FEATURE:
NAME/KEY: CDS
LOCATION: (13)..(1389)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (124)..(1389)
US-09-178-115-1
Query Match 100.0%; Score 1522; DB 3; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACACTGACGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
DB 1 ACACTGACGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
QY 61 CTTGCTCAAGGCTCACTGTCGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 CTTGCTCAAGGCTCACTGTCGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CCCAGAGGTTGCCCGGATGCAAGAGATTTCCCTTTGAGAGAGGCTCTTCTGAGGAA 180
DB 121 CCCAGAGGTTGCCCGGATGCAAGAGATTTCCCTTTGAGAGAGGCTCTTCTGAGGAA 180
QY 181 GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACTCAGAGAGAGAT 240
DB 181 GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACTCAGAGAGAGAT 240
QY 241 CCACCGGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 241 CCACCGGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCCTTAATGAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTAGTT 360
DB 301 GAAGTTAAGCCTTAATGAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTAGTT 360
QY 361 GAGGCTCTGAGATCTCAAGAACCCAGATATATGCCCAAGAGAGAGAT 420
DB 361 GAGGCTCTGAGATCTCAAGAACCCAGATATATGCCCAAGAGAGAGAT 420
QY 421 GACCAAGTCAATGAGGCTATGAGGAGACCGGCTGAGCCCGGAGGTGCCAGGCTGC 480
DB 421 GACCAAGTCAATGAGGCTATGAGGAGACCGGCTGAGCCCGGAGGTGCCAGGCTGC 480
QY 481 GCGGCGGCTTCCAGTCCCGGCTGATATCCGCCCAAGCTGCGCTTCTGCGCGCC 540
DB 481 GCGGCGGCTTCCAGTCCCGGCTGATATCCGCCCAAGCTGCGCTTCTGCGCGCC 540
QY 541 CTGCGCGGCTGGAATCTGAGGCTTCAAGTCTCCCGGCTGCGGAACTGCGCTGCGC 600
DB 541 CTGCGCGGCTGGAATCTGAGGCTTCAAGTCTCCCGGCTGCGGAACTGCGCTGCGC 600
QY 601 AACAGTGGCACAAGTGTGCAACTGACCTGCTGCTGAGAGATGCTGAGGCTGCC 660

D	b	601	AAACAATGGGCAACAAGTGTGAACTGAACCTCTGCTCTGGGCTAAGAAATGGCTCTGGGCTCC	660
O	y	661	GGGCGGAGATACCGGGCTCTGCAAGCTGCATCTGCACTGGGGGGCTGACAGTCTGTCCGGGC	720
D	b	661	GGGCGGAGATACCGGGCTCTGCAAGCTGCATCTGCACTGGGGGGCTGACAGTCTGTCCGGGC	720
O	y	721	TGGAGAGCACTGTGGAAAGGCCACCGGTTTCCCTGGCCGAGATCCACGTTGGTTTCACTCAGC	780
D	b	721	TGGAGAGCACTGTGGAAAGGCCACCGGTTTCCCTGGCCGAGATCCACGTTGGTTTCACTCAGC	780
O	y	781	ACCGGCTTTGGCCAGATTGACGAGGCGCTTGGGGCGCCCGGAGAGCGCTGGCCGCTTTGGCC	840
D	b	781	ACCGGCTTTGGCCAGATTGACGAGGCGCTTGGGGCGCCCGGAGAGCGCTGGCCGCTTTGGCC	840
O	y	841	GCCTTTCTGGAGAGGGGCCCGGAAGAAAACAGTCCCTATGAGCAGTTGCTGTCTCGCTTG	900
D	b	841	GCCTTTCTGGAGAGGGGCCCGGAAGAAAACAGTCCCTATGAGCAGTTGCTGTCTCGCTTG	900
O	y	901	GAAGAATAATGCGTAGGAAAGGCTCAGAGACTCAGGATCCAGGATCTGACATATCTGACATC	960
D	b	901	GAAGAATAATGCGTAGGAAAGGCTCAGAGACTCAGGATCCAGGATCTGACATATCTGACATC	960
O	y	961	CTGGCCTCTGACTTCAGCCGCTACTTCCAATATGAGGGGCTCTGACTACACCGCCCTGT	1020
D	b	961	CTGGCCTCTGACTTCAGCCGCTACTTCCAATATGAGGGGCTCTGACTACACCGCCCTGT	1020
O	y	1021	GGCCAGGGGTCTCATCTGGAACTGTGTTTAAACAGACAGTGAATGCTGAATGCTAAGCAGCTC	1080
D	b	1021	GGCCAGGGGTCTCATCTGGAACTGTGTTTAAACAGACAGTGAATGCTGAATGCTAAGCAGCTC	1080
O	y	1081	CACACCCCTCTGCAACCCCTGTGGGGGACCGTGGTGACTCTGGCTAAGAGCTTACCTCCGA	1140
D	b	1081	CACACCCCTCTGCAACCCCTGTGGGGGACCGTGGTGACTCTGGCTAAGAGCTTACCTCCGA	1140
O	y	1141	GCGACGACAGCCTTTGAAATGGGCGAGATGATTAAGAGCCTCTTCCCTGCTGAGATGGAACAG	1200
D	b	1141	GCGACGACAGCCTTTGAAATGGGCGAGATGATTAAGAGCCTCTTCCCTGCTGAGATGGAACAG	1200
O	y	1201	AGTCTCTGGGGCTGTGAGGCAATGCCAGCTGAATTCCTGCTCTGGCTGCTGTGTGAATCTCTA	1260
D	b	1201	AGTCTCTGGGGCTGTGAGGCAATGCCAGCTGAATTCCTGCTCTGGCTGCTGTGTGAATCTCTA	1260
O	y	1261	GCCCTGTGTTTTGGGCTCTTTTGTGCTGACCAAGGCTGGCTTCTTGTGTGACAGATGAGA	1320
D	b	1261	GCCCTGTGTTTTGGGCTCTTTTGTGCTGACCAAGGCTGGCTTCTTGTGTGACAGATGAGA	1320
O	y	1321	AGGCAAGCACAGAAAGGGGAAACAAAGGGGGGTGTGAGCTACCGCCACAGAGTATGACCGAG	1380
D	b	1321	AGGCAAGCACAGAAAGGGGAAACAAAGGGGGGTGTGAGCTACCGCCACAGAGTATGACCGAG	1380
O	y	1381	ACTGGAAGCTTAAGGCTGGAATCTTGGAGAAATGGGAACCCAGGCCAGAGGCAATCTGAAGG	1440
D	b	1381	ACTGGAAGCTTAAGGCTGGAATCTTGGAGAAATGGGAACCCAGGCCAGAGGCAATCTGAAGG	1440
O	y	1441	GGAGCGGATACCTGCTCTGCTCCGCTCAATTATGSCACTTCCTTTTAAGTSCCAAGAAAT	1500
D	b	1441	GGAGCGGATACCTGCTCTGCTCCGCTCAATTATGSCACTTCCTTTTAAGTSCCAAGAAAT	1500
O	y	1501	TTTTTAATAATAATTTATTAAT	1522
D	b	1501	TTTTTAATAATAATTTATTAAT	1522

```

RESULT 0
US-09-177-776-1
Sequence 1, Application US/09177776A
Patent No. 6297051
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: NM Gene and Protein

```

```

1 FILE REFERENCE: D-0021.5A
2 CURRENT APPLICATION NUMBER: US/09/177,776A
3 CURRENT FILING DATE: 1998-10-23
4 EARLIER APPLICATION NUMBER: 08/787,739
5 EARLIER FILING DATE: 1997-01-24
6 EARLIER APPLICATION NUMBER: 08/485,049
7 EARLIER FILING DATE: 1995-06-07
8 EARLIER APPLICATION NUMBER: 08/486,756
9 EARLIER FILING DATE: 1995-06-07
10 EARLIER APPLICATION NUMBER: 08/477,504
11 EARLIER FILING DATE: 1995-06-07
12 EARLIER APPLICATION NUMBER: 08/481,658
13 EARLIER FILING DATE: 1995-06-07
14 EARLIER APPLICATION NUMBER: 08/485,862
15 EARLIER FILING DATE: 1995-06-07
16 EARLIER APPLICATION NUMBER: 08/485,863
17 EARLIER FILING DATE: 1995-06-07
18 EARLIER APPLICATION NUMBER: 08/487,077
19 EARLIER FILING DATE: 1995-06-07
20 EARLIER APPLICATION NUMBER: 08/260,190
21 EARLIER FILING DATE: 1994-06-15
22 EARLIER APPLICATION NUMBER: 08/177,093
23 EARLIER FILING DATE: 1993-12-30
24 EARLIER APPLICATION NUMBER: 07/964,589
25 EARLIER FILING DATE: 1992-10-21
26 EARLIER APPLICATION NUMBER: PV-09-92
27 EARLIER FILING DATE: 1992-03-11
28 NUMBER OF SEQ ID NOS: 116
29 SOFTWARE: PatentIn Ver. 2.0
30 SEQ ID NO 1
31 LENGTH: 1522
32 TYPE: DNA
33 ORGANISM: HUMAN
34 FEATURE:
35 NAME/KEY: CDS
36 LOCATION: (13)..(1389)
37 FEATURE:
38 NAME/KEY: mat_peptide
39 LOCATION: (124)..(1389)
40 US-09-177-776-1

```

Query Match	100.0%	Score 1522	DB 3	Length 1522
Best Local Similarity	100.0%	Pred. No. 0		
Matches 1522	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY 1	ACAGTCAGCCGCAATGAGCTCCCTGTGCCCCAGCCCTGAGCTCCTCTGTGGATCCCGACC	60		
DB 1	ACAGTCAGCCGCAATGAGCTCCCTGTGCCCCAGCCCTGAGCTCCTCTGTGGATCCCGACC	60		
QY 61	CTGTGTCAGGCTCTCACTGTGCAACTGTGTCTCACTGCTGCTTCTGATGCTGTCCAT	120		
DB 61	CTGTGTCAGGCTCTCACTGTGCAACTGTGTCTCACTGCTGCTTCTGATGCTGTCCAT	120		
QY 121	CCCCAGAGGTTGGCCCCGGGATGCAAGAGGATTTCCCCCTTGGGAGGAGGCTCTTCTGGGGAA	180		
DB 121	CCCCAGAGGTTGGCCCCGGGATGCAAGAGGATTTCCCCCTTGGGAGGAGGCTCTTCTGGGGAA	180		
QY 181	GATGACCCACTGTGGCGAGAGGATCTGCCAGTGAAGAGATTCACCCAGAGAGGAGAT	240		
DB 181	GATGACCCACTGTGGCGAGAGGATCTGCCAGTGAAGAGATTCACCCAGAGAGGAGAT	240		
QY 241	CCACCCCGGAGAGGAGATCTTACCTTGAGAGAGGAGATTTACTTGGAGAGAGATCTTACT	300		
DB 241	CCACCCCGGAGAGGAGATCTTACCTTGAGAGAGGAGATTTACTTGGAGAGAGATCTTACT	300		
QY 301	GAAGTTAAGCCTTAATACGAAGAAGAGGGCTCCCTGAAGTTAGAGATCTTACCTACTGTT	360		
DB 301	GAAGTTAAGCCTTAATACGAAGAAGAGGGCTCCCTGAAGTTAGAGATCTTACCTACTGTT	360		
QY 361	GAGGCTCTGAGATCTCTCAAGAACCCCAAGATTAATGCCCAAGGGAACAAGAGGGAGT	420		
DB 361	GAGGCTCTGAGATCTCTCAAGAACCCCAAGATTAATGCCCAAGGGAACAAGAGGGAGT	420		

421 GACCAAGTCATTGGCGCTATGAGGCGACCCGCGCTGGCGCGGCTGCTCCAGCCTGC 480
421 GACCAAGTCATTGGCGCTATGAGGCGACCCGCGCTGGCGCGGCTGCTCCAGCCTGC 480
481 GCGGGCGCGCTTCCAGTCAGTCGCGGATATCCGCGCGCGCGAGCTGCGGCTTCCGCGGCGC 540
481 GCGGGCGCGCTTCCAGTCAGTCGCGGATATCCGCGCGCGAGCTGCGGCTTCCGCGGCGC 540
541 CTGCGCGCGCTTCCAGTCAGTCGCGGATATCCGCGCGCGAGCTGCGGCTTCCGCGGCGC 600
541 CTGCGCGCGCTTCCAGTCAGTCGCGGATATCCGCGCGCGAGCTGCGGCTTCCGCGGCGC 600
601 AACCAATGGCCACAGTGTGCACTGACCTGCGCTCTGCGGCTAGAGATGCGTCTGGGCTCCC 660
601 AACCAATGGCCACAGTGTGCACTGACCTGCGCTCTGCGGCTAGAGATGCGTCTGGGCTCCC 660
661 GGGCGGGAGTACCGGCGCTCTGACGCTGACCTGCACTGCGGCGGCTGCAAGTGTGCGCGGCGC 720
661 GGGCGGGAGTACCGGCGCTCTGACGCTGACCTGCACTGCGGCGGCTGCAAGTGTGCGCGGCGC 720
721 TCGGAGCACACTGTGAGAGGCGCACCGCTTCCCTGCGGAGATCCAGTGTGCACTGCGCAGC 780
721 TCGGAGCACACTGTGAGAGGCGCACCGCTTCCCTGCGGAGATCCAGTGTGCACTGCGCAGC 780
781 ACCGCTTGTGCGAGATTTGACGAGGCTTGGGCGCGCGCGGAGGCTGCGGCTGCGGCTGCGC 840
781 ACCGCTTGTGCGAGATTTGACGAGGCTTGGGCGCGCGCGGAGGCTGCGGCTGCGGCTGCGC 840
841 GCGCTTGTGAGAGGCGCGCGAGAAACAGTGCCTATGAGCAGTGTGCTGCTGCGCTGCGC 900
841 GCGCTTGTGAGAGGCGCGCGAGAAACAGTGCCTATGAGCAGTGTGCTGCTGCGCTGCGC 900
901 GAAGAAATGCTGAGAGAGGCTTCAAGACTCAGGTCTCCAGGACTGAGCAATATCTGCACTGC 960
901 GAAGAAATGCTGAGAGAGGCTTCAAGACTCAGGTCTCCAGGACTGAGCAATATCTGCACTGC 960
961 CTGCGCTGCTGAGCTTCAAGAGGCTTCAAGACTCAGGTCTCCAGGACTGAGCAATATCTGCACTGC 1020
961 CTGCGCTGCTGAGCTTCAAGAGGCTTCAAGACTCAGGTCTCCAGGACTGAGCAATATCTGCACTGC 1020
1021 GCGCGAGGCTGCTGAGCTGAGCTGCTGTTAACAGACAGTGTGCTGAGTCTGAGAGAGCTGC 1080
1021 GCGCGAGGCTGCTGAGCTGAGCTGCTGTTAACAGACAGTGTGCTGAGTCTGAGAGAGCTGC 1080
1081 CACACCTCTCTGAGACACCTGCTGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
1081 CACACCTCTCTGAGACACCTGCTGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
1141 GCGAGCGAGCTTGAATGAGGAGGAGTGAAGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
1141 GCGAGCGAGCTTGAATGAGGAGGAGTGAAGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
1201 AGTCTCGGCGCTGCTGAGCTGAGCTGCAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
1201 AGTCTCGGCGCTGCTGAGCTGAGCTGCAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
1261 GCGCGGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
1261 GCGCGGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
1321 AGGCAAGCAGAGAGGAGGAGCAAGAGGAGGAGTGAAGCTACCGCGCGAGAGGAGTACCGAG 1380
1321 AGGCAAGCAGAGAGGAGGAGCAAGAGGAGGAGTGAAGCTACCGCGCGAGAGGAGTACCGAG 1380
1381 ACTGAGCTTGAAGGCTGAGCTTGAAGGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1440
1381 ACTGAGCTTGAAGGCTGAGCTTGAAGGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1440
1441 GAGAGCGGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
1441 GAGAGCGGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
1501 TTTTAAATTAATTAATTAAT 1522

Db 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 11
US-09-772-719B-1
Sequence 1, Application US/09772719B
Patent No. 6770438
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
Pastorek, Jaromir
Pastorkova, Silvia
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 465 California Street, Suite 450
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772,719B
FILING DATE: 30-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30, 863
REFERENCE/DOCKET NUMBER: D-0021.3A-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-772-719B-1

Query Match 100.0%; Score 1522; DB 4; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGTACGCGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60
Db 1 ACAAGTACGCGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60
QY 1 CCGTCTCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 1 CCGTCTCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 CCCAGAGGTTGCCCGGAGTCAAGAGATTTCCCTTGGAGAGGCTCTTCTGGGAGAA 180
Db 121 CCCAGAGGTTGCCCGGAGTCAAGAGATTTCCCTTGGAGAGGCTCTTCTGGGAGAA 180
QY 181 GATGACCATCTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAAGAGAGAGAT 240
Db 181 GATGACCATCTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAAGAGAGAGAT 240
QY 241 CCACCGGAGAGAGAGATCTGAGAGAGAGATCTGAGAGAGAGATCTGAGAGAGATCTGAGAGATCTG 300

Db	301	GAAGTTAAACCTAAATCAGAAAGAAAGAGGGGCTCCCTGAAGTTAGAGATCTACTACTGTT	361
OY	361	GAGGCTCCCTGAGATCTCTCAAGAACCCCAAGATATATAGCCACAGGGACAAAGAAAGGGAT	420
Db	361	GAGGCTCCCTGAGATCTCTCAAGAACCCCAAGATATATAGCCACAGGGACAAAGAAAGGGAT	420
OY	421	GACCAAGATCATTTGGCGCTATGGAGGCGACCCGCGCTGGCCCGGGGTGTCCCAAGCTGAC	480
Db	421	GACCAAGATCATTTGGCGCTATGGAGGCGACCCGCGCTGGCCCGGGGTGTCCCAAGCTGAC	480
OY	481	GGGGGCGGTTTCAAGTCCCCGGTGAATATCCGCCCAAGTGGCGGCTTTCGCCGACC	540
Db	481	GGGGGCGGTTTCAAGTCCCCGGTGAATATCCGCCCAAGTGGCGGCTTTCGCCGACC	540
OY	541	CTGGCCCCCTGGAATCTCTGGGGCTTCCAGATCCCGCGCTCCCAAGATGGGCGTGGG	600
Db	541	CTGGCCCCCTGGAATCTCTGGGGCTTCCAGATCCCGCGCTCCCAAGATGGGCGTGGG	600
OY	601	AACAATGGCCACAATGTGCAATCGAACCTTGCTCTGGGCTAGAGATGGCTCTGGGTGCC	660
Db	601	AACAATGGCCACAATGTGCAATCGAACCTTGCTCTGGGCTAGAGATGGCTCTGGGTGCC	660
OY	661	GGGGGGGAGTACCGGGCTGTGAGCTGCAATCTGACATGGGGGGCTGGCAAGTGTCCGGG	720
Db	661	GGGGGGGAGTACCGGGCTGTGAGCTGCAATCTGACATGGGGGGCTGGCAAGTGTCCGGG	720
OY	721	TCGAGCACTGTGTGAAGGCCACCGTTCCTCTGCGAATCCACGTGTTCACCTCAAC	780
Db	721	TCGAGCACTGTGTGAAGGCCACCGTTCCTCTGCGAATCCACGTGTTCACCTCAAC	780
OY	781	ACCGGCTTTCGCAAGTTGACGAGGCTTTGGGGGCGCCCGGAGGCTGGCGGTGTGGGCG	840
Db	781	ACCGGCTTTCGCAAGTTGACGAGGCTTTGGGGGCGCCCGGAGGCTGGCGGTGTGGGCG	840
OY	841	GCTTTCGTGAGGAGGAGGCGCCGGAAGAAACAGTGCCTATGACAGATGTGTCTGTGACTTG	900
Db	841	GCTTTCGTGAGGAGGAGGCGCCGGAAGAAACAGTGCCTATGACAGATGTGTCTGTGACTTG	900
OY	901	GAAAGAAATGCTGAGAGAGGCTCAAGACCTCAGGTCCAGAGCTGGACATATCTGACCTC	960
Db	901	GAAAGAAATGCTGAGAGAGGCTCAAGACCTCAGGTCCAGAGCTGGACATATCTGACACCTC	960
OY	961	CTGGCCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTAGATCAACCGGCGGT	1020
Db	961	CTGGCCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGATCAACCGGCGGT	1020
OY	1021	GCCCAAGGATCATCTGCACTGTGTTTAAACAGACAGATGATCTGAGTCTTAAGACGCTC	1080
Db	1021	GCCCAAGGATCATCTGCACTGTGTTTAAACAGACAGATGATCTGAGTCTTAAGACGCTC	1080
OY	1081	CACACCCCTCTGACACCCCTGTGGGGAAGCTGTGAGCTCTCGGCTCAAGTGAATCTTCGA	1140
Db	1081	CACACCCCTCTGACACCCCTGTGGGGAAGCTGTGAGCTCTCGGCTCAAGTGAATCTTCGA	1140
OY	1141	GCGACGACGCTTTTGAATGAGGAGATGATGAGGCTCTCTTCCCTGCTGAGTGAAGAC	1200
Db	1141	GCGACGACGCTTTTGAATGAGGAGATGATGAGGCTCTCTTCCCTGCTGAGTGAAGAC	1200
OY	1201	AGTCTTGGGGGCTGCTGAGCCAGTCAAGCTGAATTTCTGCTGGCTGCTGATCAATCTCTA	1260
Db	1201	AGTCTTGGGGGCTGCTGAGCCAGTCAAGCTGAATTTCTGCTGGCTGCTGATCAATCTCTA	1260
OY	1261	GCCCTGTATTTTGGGCTCTCTTTTCTGTGACACAGCTGCGGTTCTTGTGCAATGAGA	1320
Db	1261	GCCCTGTATTTTGGGCTCTCTTTTCTGTGACACAGCTGCGGTTCTTGTGCAATGAGA	1320
OY	1321	AGGCAACAGAAAGGGAACCAAGGGGAGTGTAGCTACCGCCAGCAGAGGTAGCCGAG	1380
Db	1321	AGGCAACAGAAAGGGAACCAAGGGGAGTGTAGCTACCGCCAGCAGAGGTAGCCGAG	1380
OY	1381	ACTGGAGCTTGAAGGCTGATCTTGGAGAAATGTGAAGACCAAGCCAGAGGCAATCTGAAGG	1440
Db	1381	ACTGGAGCTTGAAGGCTGATCTTGGAGAAATGTGAAGACCAAGCCAGAGGCAATCTGAAGG	1440

```

RESULT 13
US-08-335-469-1
; Sequence 1, Application US/08335469A
; Patent No. 6004535
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: Methods to Detect and Quantify MN Protein/Polypeptide
; TITLE OF INVENTION: Using MN-Specific Antibodies
; FILE REFERENCE: D-0021A
; CURRENT APPLICATION NUMBER: US/08/335,469A
; CURRENT FILING DATE: 1994-11-07
; EARLIER APPLICATION NUMBER: 07/964,589
; EARLIER FILING DATE: 1992-10-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1399
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1266)
; US-08-335-469-1

```

Query Match	91.9%;	Score 1399;	DB 3;	Length 1399;
Beet Local Similarity	100.0%;	Pred. No. 0;		
Matches 1399;	Conservative	0;	Mismatches 0;	Indels 0;
			Gaps	0;
QY	124	CAGAGTTGTCCTCCGAGATGACAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGAGGAAGAT	183	
Db	1	CAGAGTTGTCCTCCGAGATGACAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGAGGAAGAT	60	
QY	184	GACCCACTGGCGAGAGAGATCTGCCAAGTAAGAGATTCACCCAGAGAGAGATCCA	243	
Db	61	GACCCACTGGCGAGAGAGATCTGCCAAGTAAGAGATTCACCCAGAGAGAGATCCA	120	
QY	244	CCCGAGAGAGAGATCTTACTGTGAGAGAGAGATCTTACTGTGAGAGAGATCTTACTGTGAG	303	
Db	121	CCCGAGAGAGAGATCTTACTGTGAGAGAGAGATCTTACTGTGAGAGAGATCTTACTGTGAG	180	
QY	304	GTTAAGGCTTAATCAG	363	
Db	181	GTTAAGGCTTAATCAG	240	
QY	364	GCTCTGAGAGATCTTCAAGACCCAGAAATTAATGCCCCAGAGACAAAGAGAGAGATGAC	423	
Db	241	GCTCTGAGAGATCTTCAAGACCCAGAAATTAATGCCCCAGAGACAAAGAGAGAGATGAC	300	
QY	424	CAGAGTCAATGGGCGCTATGAGAGGCGACCCGGCTTGCGCCGGGATGCCAGCTTGCGCG	483	
Db	301	CAGAGTCAATGGGCGCTATGAGAGGCGACCCGGCTTGCGCCGGGATGCCAGCTTGCGCG	360	
QY	484	GAGCGCTTCAAGTCCCGGAGATTAACCGGCCCCAGAGTGGCGGCTTTCGCGCGGCGCTG	543	
Db	361	GAGCGCTTCAAGTCCCGGAGATTAACCGGCCCCAGAGTGGCGGCTTTCGCGCGGCGCTG	420	
QY	544	CGCCCTCTGAAATCTCTGGGCTTCCAGCTCCGCGGCTCCAGAACTGCGGCTTGCGCAAC	603	
Db	421	CGCCCTCTGAAATCTCTGGGCTTCCAGCTCCGCGGCTCCAGAACTGCGGCTTGCGCAAC	480	
QY	604	AATGGCCAAAGTGTGCACTGACCTTGCTCTGGGCTTAGAGATGGCTTGAGTCCCGAG	663	

```
|||||
Db 481 AATGGCAGATGTGAACTGACCCCTGCTCCCTGAGAGTGTCTGAGGCTCCGGG 540
Qy 664 CGGAGATACCGGGCTTGTGACGTGATCTGCACTGGGGGGCTGCAAGTGTCCGGGCTG 723
Db 541 CGGAGATACCGGGCTTGTGACGTGATCTGCACTGGGGGGCTGCAAGTGTCCGGGCTG 600
Qy 724 GAGCACTGTGGAAGGCAACCGGTTCCCTGCGGAGATCAAGTGTGTTCACTCAGCACC 783
Db 601 GAGCACTGTGGAAGGCAACCGGTTCCCTGCGGAGATCAAGTGTGTTCACTCAGCACC 660
Qy 784 GCGTTTGCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGAGGCTGAGCTGTGGCGCC 843
Db 661 GCGTTTGCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGAGGCTGAGCTGTGGCGCC 720
Qy 844 TTTCTGAGAGAGGCGCCGAGAGAAAACAGTGTATGACAGTTGCTGTCTGCTTGA 903
Db 721 TTTCTGAGAGAGGCGCCGAGAGAAAACAGTGTATGACAGTTGCTGTCTGCTTGA 780
Qy 904 GAAATGCTGAGGAGGCTCAGAGCTCAGAGTCCAGAGCTGGAATCTGCACTCCG 963
Db 781 GAAATGCTGAGGAGGCTCAGAGCTCAGAGTCCAGAGCTGGAATCTGCACTCCG 840
Qy 964 CCTCTGACTTACGCGGCTACTTCCAAATGAGGGGCTCTGACTACCGCGCTGTG 1023
Db 841 CCTCTGACTTACGCGGCTACTTCCAAATGAGGGGCTCTGACTACCGCGCTGTG 900
Qy 1024 CAGGCTGATCTGAGCTGTGTTAAACAGACAGTGTGTGAGTGTGAGAGCTCCAC 1083
Db 901 CAGGCTGATCTGAGCTGTGTTAAACAGACAGTGTGTGAGTGTGAGAGCTCCAC 960
Qy 1084 ACCCTCTGAGCAACCTGTGGGGGAGCTGTGAGTCTGAGTGAATCTTCCAGAG 1143
Db 961 ACCCTCTGAGCAACCTGTGGGGGAGCTGTGAGTCTGAGTGAATCTTCCAGAG 1020
Qy 1144 AGCGAGCTTGTGATGGGGAGAGTGTGAGGCTCTCTCCCTGCTGAGTGTGAGCAG 1203
Db 1021 AGCGAGCTTGTGATGGGGAGAGTGTGAGGCTCTCTCCCTGCTGAGTGTGAGCAG 1080
Qy 1204 CCTCGGGCTGTGAGGCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1263
Db 1081 CCTCGGGCTGTGAGGCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1140
Qy 1264 CTGGTTTGGGCTCTCTTGTGCTGACAGAGTGTGAGTGTGAGTGTGAGTGTGAG 1323
Db 1141 CTGGTTTGGGCTCTCTTGTGCTGACAGAGTGTGAGTGTGAGTGTGAGTGTGAG 1200
Qy 1324 CAGCAGAGAGGGGAGCAAGAGGGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1383
Db 1201 CAGCAGAGAGGGGAGCAAGAGGGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1260
Qy 1384 GAGGCTTGAAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1443
Db 1261 GAGGCTTGAAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1320
Qy 1444 GCGGCTTGAAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1503
Db 1321 GCGGCTTGAAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1380
Qy 1504 TAAATTAATTAATTAAT 1522
Db 1381 TAAATTAATTAATTAAT 1399
```

```
RESULT 14
US-08-260-190-1
; Sequence 1, Application US/08260190A
; Patent No. 6774117
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
```

```
FILE REFERENCE: D-0021-2
; CURRENT APPLICATION NUMBER: US/08/260,190A
; CURRENT FILING DATE: 1994-06-15
; EARLIER APPLICATION NUMBER: 08/177,093
; EARLIER FILING DATE: 1993-12-30
; EARLIER APPLICATION NUMBER: 07/964,589
; EARLIER FILING DATE: 1992-10-21
; EARLIER APPLICATION NUMBER: PV-709-92
; EARLIER FILING DATE: 1992-03-11
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentlin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1399
; TYPE: DNA
; ORGANISM: HUMAN
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1266)
US-08-260-190-1

Query Match 91.9%; Score 1399; DB 4; Length 1399;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1399; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 124 CAGAGGTTSCCCGAGTGAAGAGATTCCTCTGGAGAGAGCTCTTCTGGGAGAGAT 183
Db 1 CAGAGGTTSCCCGAGTGAAGAGATTCCTCTGGAGAGAGCTCTTCTGGGAGAGAT 60
Qy 184 GACCCACTGGGAGAGAGATTCCTCACTGAGAGAGATTCACCCAGAGAGAGATTC 243
Db 61 GACCCACTGGGAGAGAGATTCCTCACTGAGAGAGATTCACCCAGAGAGAGATTC 120
Qy 244 CCCGAGAGAGAGATTCCTGAGAGAGATTCACCTGAGAGAGAGATTCACCTGAA 303
Db 121 CCCGAGAGAGAGATTCCTGAGAGAGATTCACCTGAGAGAGAGATTCACCTGAA 180
Qy 304 GTTAAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTGAAGATCTACCTGTTGAG 363
Db 181 GTTAAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTGAAGATCTACCTGTTGAG 240
Qy 364 GCTCTGAGAGATTCCTCAAGAACCCCAAGATTAATGCCCAGAGGACAAAGAGGGATG 423
Db 241 GCTCTGAGAGATTCCTCAAGAACCCCAAGATTAATGCCCAGAGGACAAAGAGGGATG 300
Qy 424 CAGAGTCAATGGCGCTATGAGGCGACCCGCTGCGCCGCTGCTCCCAAGCTGCGG 483
Db 301 CAGAGTCAATGGCGCTATGAGGCGACCCGCTGCGCCGCTGCTCCCAAGCTGCGG 360
Qy 484 GGCCTTCAGTCCCGGTGATATCCGCGCCCAAGCTGCGGCTTCTGCGCGGCTG 543
Db 361 GGCCTTCAGTCCCGGTGATATCCGCGCCCAAGCTGCGGCTTCTGCGCGGCTG 420
Qy 544 CCGCCCTGGAATCTCTGGGCTTCAAGCTCCCGCGCTCCCAAGCTGCGGCTGCGCA 603
Db 421 CCGCCCTGGAATCTCTGGGCTTCAAGCTCCCGCGCTCCCAAGCTGCGGCTGCGCA 480
Qy 604 AATGCGACAGTGTGCACTGACCTGCTCTGAGTGAAGTGTCTTGGGTCCGGG 663
Db 481 AATGCGACAGTGTGCACTGACCTGCTCTGAGTGAAGTGTCTTGGGTCCGGG 540
Qy 664 CGGAGATACCGGGCTGTGAGCTGCACTGTGAGGAGGCTGTGAGGAGTGTCCGGGCTG 723
Db 541 CGGAGATACCGGGCTGTGAGCTGCACTGTGAGGAGGCTGTGAGGAGTGTCCGGGCTG 600
Qy 724 GAGCACTGTGGAAGGCAACCGTTCCTGCGGAGATCAAGTGTGTTCACTCAGCACC 783
Db 601 GAGCACTGTGGAAGGCAACCGTTCCTGCGGAGATCAAGTGTGTTCACTCAGCACC 660
Qy 784 GCGTTTGCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGAGGCTGAGCTGTGGCGCC 843
Db 661 GCGTTTGCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGAGGCTGAGCTGTGGCGCC 720
Qy 844 TTTCTGAGAGAGGCGCCGAGAGAAAACAGTGTATGACAGTTGCTGTCTGCTTGA 903
```

```

Db      721 TTTCTGAGAGAGGCGCCGGAAAGAAAACAAGTCTTAGAGAGTTGCTGTCTGCTTGAA 780
QY      904 GAAATTCGCTGAGGAAAGGCTCAAGAGATCAGAGTCCAGAGCTGGACATATTCGACATCCG 963
Db      781 GAAATTCGCTGAGGAAAGGCTCAAGAGATCAGAGTCCAGAGCTGGACATATTCGACATCCG 840
QY      964 CCCTCGACTTCAGCCGCTACTCTCCAAATATGAGGGGCTCTTGACTCAACCGCCCTGTGCG 102
Db      841 CCCTCGACTTCAGCCGCTACTCTCCAAATATGAGGGGCTCTTGACTCAACCGCCCTGTGCG 900
QY      1024 CAGGGTTCATCTGCACTGTGTTTAAACAAGACATGATGCTGAGTGCCTAAGCACTCCAC 108
Db      901 CAGGGTTCATCTGCACTGTGTTTAAACAAGACATGATGCTGAGTGCCTAAGCACTCCAC 960
QY      1084 ACCCTCTCTGACACCCCTGTGGGGACCTGATGACTCTCGGCTCAGCTGAACTTCCGAGGG 114
Db      961 ACCCTCTCTGACACCCCTGTGGGGACCTGATGACTCTCGGCTCAGCTGAACTTCCGAGGG 102
QY      1144 ACGCAGCCCTTTGAATGAGGCGAGATTTGAGGCTCTCTTCCCTGCTGAGTGAACAAGCT 120
Db      1021 ACGCAGCCCTTTGAATGAGGCGAGATTTGAGGCTCTCTTCCCTGCTGAGTGAACAAGCT 108
QY      1204 CCTGGGGCTGCTGAGCGCAATCCAGCTGAATTCCTGCTGAGTCTGCTGATCCTTAGCC 126
Db      1081 CCTGGGGCTGCTGAGCGCAATCCAGCTGAATTCCTGCTGAGTCTGCTGATCCTTAGCC 114
QY      1264 CTGTGTTTGGGCTCTCTTTTCTGTCAACAAGCGTGCAGCTTCTTGTGAGATGAGAAAG 132
Db      1141 CTGTGTTTGGGCTCTCTTTTCTGTCAACAAGCGTGCAGCTTCTTGTGAGATGAGAAAG 120
QY      1324 CAGCACAAGAGGGGAAACCAAAGGGGCTGTAGCTACCGCCACAGCAGAGGTAGCCGAGACT 138
Db      1201 CAGCACAAGAGGGGAAACCAAAGGGGCTGTAGCTACCGCCACAGCAGAGGTAGCCGAGACT 126
QY      1384 GGAAGCTTGAAGGCTGGATCTTGTGAGAAATGTGAGAAACGACGACAGAGCACTGAGGGGGA 144
Db      1281 GGAAGCTTGAAGGCTGGATCTTGTGAGAAATGTGAGAAACGACGACAGAGCACTGAGGGGGA 132
QY      1444 GCGGGTAACTGCTGCTGCTCTGCTCATTATGCACTTCTTTTAACTGCGCAAGAAATTTT 150
Db      1321 GCGGGTAACTGCTGCTGCTCTGCTCATTATGCACTTCTTTTAACTGCGCAAGAAATTTT 138
QY      1504 TAAATTAATTAATTAAT 1522
Db      1381 TAAATTAATTAATTAAT 1399

RESULT 15
US-07-964-589-1
; Sequence 1, Application US/07964589
; Patent No. 5387676
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Leona L. Lauder
; STREET: Steuart Street Tower, 18th Fl., One Market
; CITY: Plaza
; STATE: San Francisco
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/964.589

```

```

? FILING DATE: 19921021
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Lauder, Leona L
? REGISTRATION NUMBER: 30,863
? REFERENCE/DOCKET NUMBER: D-0021
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 415-777-9257
? TELEFAX: 415-543-4219
? INFORMATION FOR SEO ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1397 base pairs
? TYPE: NUCLEIC ACID
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? HYPOTHEITICAL: NO
? ANTI-SENSE: NO
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 1..1287
?
? US-07-964-589-1

```

Query Match	34.7%;	Score 528;	DB 1;	Length 1397;
Best Local Similarity	99.8%;	Pred. No. 5.4e-245;		
Matches 648;	Conservative 0;	Mismatches 0;	Indels 1;	Gaps 1
Qy	875	CCTATGAGCAATTGCTCTGCTTGGAGAAATCGCTGAGAAAGGCTCAGAGACTCAGG	934	
Db	749	CCATATGAGCAATTGCTCTGCTTGGAGAAATCGCTGAGAAAGGCTCAGAGACTCAGG	808	
Qy	935	TCCAGAGATCGGAATATTTGCAATCTCGGCCCTTGACTTGAAGCCGCTACTTCCAAATG	994	
Db	809	TCCAGAGATCGGAATATTTGCAATCTCGGCCCTTGACTTGAAGCCGCTACTTCCAAATG	868	
Qy	995	AGGGGTCTGACTACACCGCCCTGTGCCAGGGTGATCTGGAATGTGTTAAACAGA	1054	
Db	869	AGGGGTCTGACTACACCGCCCTGTGCCAGGGTGATCTGGAATGTGTTAAACAGA	928	
Qy	1055	CAGTGAATGCTGAGTGTCTAAGCACTCCAACCTCTCTGACACCTGTGGGACCTGGTG	1114	
Db	929	CAGTGAATGCTGAGTGTCTAAGCACTCCAACCTCTCTGACACCTGTGGGACCTGGTG	988	
Qy	1115	ACTCTGGGCTACAGCTGAACCTTCCGAGCGACCGACCTTTGAATGGGGGAGTGAATTGAG	1174	
Db	989	ACTCTGGGCTACAGCTGAACCTTCCGAGCGACCGACCTTTGAATGGGGGAGTGAATTGAG	1044	
Qy	1175	CCTCCTTCCCTGCTGAGTGGACAGCAAGTCTCTGGGGCTGCTGAACCACTCCAGCTGAAT	1234	
Db	1049	CCTCCTTCCCTGCTGAGTGGACAGCAAGTCTCTGGGGCTGCTGAACCACTCCAGCTGAAT	1108	
Qy	1235	CTGACCTGGCTGCTGCTGAGCAATCCTTAACCCCTGGTTTTTGGGCTCTCTTTTGCTGTCAACA	1294	
Db	1109	CTGACCTGGCTGCTGCTGAGCAATCCTTAACCCCTGGTTTTTGGGCTCTCTTTTGCTGTCAACA	1168	
Qy	1295	GGCTGCGGCTCTTGTGTCAATGAGAGGCGACGACAGAAAGGGGAAACCAAAGGGGTGTGA	1354	
Db	1169	GGCTGCGGCTCTTGTGTCAATGAGAGGCGACGACAGAAAGGGGAAACCAAAGGGGTGTGA	1228	
Qy	1355	GC-TACCGGCCAAGAGGTAGCCGAGACTTGAGGCTTGAAGCTGGAATCTTTGAGAAATGT	1413	
Db	1229	GCCTACCGGCCAAGAGGTAGCCGAGACTTGAGGCTTGAAGGCTTGTGAGAAATGT	1288	
Qy	1414	GAGAAAGCAACCAAGGCAATCTAGAGGGGGAGCCGGTAACTGTCCCTGTCCGTCAATATG	1473	
Db	1289	GAGAAAGCAACCAAGGCAATCTAGAGGGGGAGCCGGTAACTGTCCCTGTCCGTCAATATG	1348	
Qy	1474	CCAATTCCTTTAACTGCCAAGAAATTTTAAATATTAATATTAATAT 1522		
Db	1349	CCAATTCCTTTAACTGCCAAGAAATTTTAAATATTAATATTAATAT 1397		

Search completed: February 6, 2005, 10:54:34

Job time : 158 secs

... Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 07:35:02 ; Search time 862 Seconds
(without alignments)
10145.292 Million cell updates/sec

Title: US-09-967-237a-1

Perfect score: 1522
Sequence: 1 acagtcagccgcatgctcc.....ttaataataattataat 1522

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 4300275 seqs, 2872944193 residues

Word size : 50

Total number of hits satisfying chosen parameters: 77

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA.*

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
20: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
21: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1522	100.0	9	US-09-772-719-1	Sequence 1, Appl1
2	1522	100.0	10	US-09-967-237-1	Sequence 1, Appl1
3	1522	100.0	1522	US-10-795-933-5	Sequence 5, Appl1
4	1522	100.0	1522	US-10-888-694-1	Sequence 1, Appl1
5	1522	100.0	9	US-09-954-456-89	Sequence 89, Appl1
6	1522	100.0	1552	US-09-954-456-726	Sequence 726, App
7	1522	100.0	1552	US-09-960-706-180	Sequence 1060, Ap
8	1522	100.0	1552	US-09-873-367C-516	Sequence 516, App
9	1522	100.0	1552	US-09-968-007A-213	Sequence 213, App
10	1522	100.0	1552	US-10-301-822-11	Sequence 11, Appl
11	1522	100.0	1552	US-10-465-572-9	Sequence 9, Appl1
12	1522	100.0	1552	US-10-172-118-574	Sequence 574, App

13	1522	100.0	1552	US-10-388-360-291	Sequence 291, App
14	1522	100.0	1552	US-10-295-027-305	Sequence 305, App
15	1522	100.0	1552	US-10-295-027-1022	Sequence 1022, App
16	1522	100.0	1552	US-10-342-887-574	Sequence 574, App
17	1522	100.0	1552	US-10-734-564-71	Sequence 71, Appl
18	1522	100.0	1552	US-10-723-860-460	Sequence 460, App
19	1522	100.0	1658	US-10-723-860-5135	Sequence 5135, Ap
20	1488	97.8	1519	US-10-102-524-1695	Sequence 1695, Ap
21	1399	91.9	1399	US-10-795-933-1	Sequence 1, Appl1
22	1378	90.5	1833	US-09-783-708-2	Sequence 2, Appl1
23	528	34.7	5052	US-10-795-933-23	Sequence 23, Appl
24	365	24.0	10898	US-09-772-719-5	Sequence 5, Appl1
25	365	24.0	10898	US-09-967-237-5	Sequence 5, Appl1
26	365	24.0	10898	US-10-888-694-5	Sequence 5, Appl1
27	364	23.9	415	US-09-772-719-28	Sequence 28, Appl
28	364	23.9	445	US-09-967-237-28	Sequence 28, Appl
29	364	23.9	445	US-10-888-694-28	Sequence 28, Appl
30	331	21.7	331	US-10-242-535A-11940	Sequence 11940, A
31	331	21.7	331	US-10-085-783A-11940	Sequence 11940, A
32	297	19.5	297	US-09-777-564-592	Sequence 592, App
33	296	19.4	296	US-10-015-219-592	Sequence 592, App
34	277	18.2	277	US-10-102-524-697	Sequence 697, App
35	277	18.2	277	US-10-102-524-453	Sequence 453, App
36	264	17.3	277	US-10-102-524-1020	Sequence 1020, App
37	264	17.3	277	US-10-102-524-1139	Sequence 1139, App
38	224	14.7	276	US-10-102-524-1444	Sequence 1444, App
39	202	13.3	304	US-09-777-564-348	Sequence 348, App
40	202	13.3	304	US-10-015-219-348	Sequence 348, App
41	194	12.7	243	US-09-867-701-9969	Sequence 9969, App
42	191	12.5	191	US-09-772-719-38	Sequence 38, Appl
43	191	12.5	191	US-09-967-237-38	Sequence 38, Appl
44	191	12.5	191	US-10-888-694-38	Sequence 38, Appl
45	184	12.1	305	US-09-777-564-8	Sequence 8, Appl1

ALIGNMENTS

RESULT 1
US-09-772-719-1
; Sequence 1, Application US/09772719
; Patent No. US20020137910A1
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. lauder
; STREET: 369 Pine Street
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/772,719
; FILING DATE: 30-JUN-2001
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,049
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30, 863
; REFERENCE/DOCKET NUMBER: D-0021.3E

TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-772-719-1

Query Match 100.0%; Score 1522; DB 9; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTAGCGGAGTGGCTCCCTGTCGCCAGCCCTGGCTCCCTGTTGATCCCGGCC 60
DB 1 ACAGTAGCGGAGTGGCTCCCTGTCGCCAGCCCTGGCTCCCTGTTGATCCCGGCC 60
QY 61 CCTGCTCAGGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 CCTGCTCAGGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CCCGAGAGTTGGCCCGGATGCAAGAGATTTCCCTTGGAGAGAGCTTTCTGGGAA 180
DB 121 CCCGAGAGTTGGCCCGGATGCAAGAGATTTCCCTTGGAGAGAGCTTTCTGGGAA 180
QY 181 GATGACCCACTGGGAGAGAGATCTGCGCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
DB 181 GATGACCCACTGGGAGAGAGATCTGCGCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
QY 241 CCAGCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACT 300
DB 241 CCAGCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACT 300
QY 301 GAAATTAAAGCTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
DB 301 GAAATTAAAGCTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
QY 361 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
DB 361 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
QY 421 GACAGAGATCATTTGGGGCTATGAGAGGCGACCGGCTGGGCTGGGCTGGGCTGGG 480
DB 421 GACAGAGATCATTTGGGGCTATGAGAGGCGACCGGCTGGGCTGGGCTGGGCTGGG 480
QY 481 GGGGGCCGCTTCAATGCTCCCGGTGATATCCGCCCCCACTGGCGGCTTTCGCCGCGC 540
DB 481 GGGGGCCGCTTCAATGCTCCCGGTGATATCCGCCCCCACTGGCGGCTTTCGCCGCGC 540
QY 541 CTGGCCCCCTGGAATCTCTGGGGCTTCCAGCTCCCGCGCTCCCAAGATGCGCTGGCG 600
DB 541 CTGGCCCCCTGGAATCTCTGGGGCTTCCAGCTCCCGCGCTCCCAAGATGCGCTGGCG 600
QY 601 AACCAATGCGCAGATGTGCACTGACCTGCTCTTGGGCTAGAGATGCTTGGGCTCC 660
DB 601 AACCAATGCGCAGATGTGCACTGACCTGCTCTTGGGCTAGAGATGCTTGGGCTCC 660
QY 661 GGGCGGGAGTACCGGGCTCTGAGCTGCACTGCACTGGGGGGCTGCAAGGTGTCGGGCG 720
DB 661 GGGCGGGAGTACCGGGCTCTGAGCTGCACTGCACTGGGGGGCTGCAAGGTGTCGGGCG 720
QY 721 TCGAGACACTGTGGAAGGCGACCGTTTCCCTGCGAGAGATCAGTGGTTCACTCAGC 780
DB 721 TCGAGACACTGTGGAAGGCGACCGTTTCCCTGCGAGAGATCAGTGGTTCACTCAGC 780
QY 781 ACCGCTTTTGCAGAGTTGACAGAGGCTTTGGGGGCGCCGGAGAGGCTGGCTGTGGCC 840
DB 781 ACCGCTTTTGCAGAGTTGACAGAGGCTTTGGGGGCGCCGGAGAGGCTGGCTGTGGCC 840

QY 841 GCTTTCTGAGAGAGGCGCCGAGAGAAAAGTGGCTATGAGCACTGCTGCTGCTTG 900
DB 841 GCTTTCTGAGAGAGGCGCCGAGAGAAAAGTGGCTATGAGCACTGCTGCTGCTTG 900
QY 901 GAAAGAAATCGCTGAGAGAGGCTCAGAGACTGAGGCTCCAGAGACTGAGATATTCACATC 960
DB 901 GAAAGAAATCGCTGAGAGAGGCTCAGAGACTGAGGCTCCAGAGACTGAGATATTCACATC 960
QY 961 CTGGCTCTGACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAG 1020
DB 961 CTGGCTCTGACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAG 1020
QY 1021 GCCCAGGCTGATCTGAGCTGCTGTTTAAACAGACAGTGAATGCTGAGCTGAGGCTGAG 1080
DB 1021 GCCCAGGCTGATCTGAGCTGCTGTTTAAACAGACAGTGAATGCTGAGCTGAGGCTGAG 1080
QY 1081 CACACCTCTGACACCTGAGGAGCTGAGTGAATGCTGAGGCTGAGGCTGAGGCTGAG 1140
DB 1081 CACACCTCTGACACCTGAGGAGCTGAGTGAATGCTGAGGCTGAGGCTGAGGCTGAG 1140
QY 1141 GCGACGACCTTTGATGAGGCGAGTGAATGAGGCTGCTTCCCTGCTGAGTGAACAGC 1200
DB 1141 GCGACGACCTTTGATGAGGCGAGTGAATGAGGCTGCTTCCCTGCTGAGTGAACAGC 1200
QY 1201 AGTCTCGGCTGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1260
DB 1201 AGTCTCGGCTGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1260
QY 1261 GCGCTGCTTGGCTGCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
DB 1261 GCGCTGCTTGGCTGCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
QY 1321 AGGACGACAG 1380
DB 1321 AGGACGACAG 1380
QY 1381 ACTGAGCTTGAAGGCTGAGTCTTGGAGATGTGAGAGAGAGAGAGAGAGAGAGAGAG 1440
DB 1381 ACTGAGCTTGAAGGCTGAGTCTTGGAGATGTGAGAGAGAGAGAGAGAGAGAGAGAG 1440
QY 1441 GAGGCGGCTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 GAGGCGGCTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1501 TTTTAAATTAATTTTAAAT 1522

RESULT 2
US-09-967-237-1
Sequence 1, Application US/09967237
Publication No. US20030049828A1
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
TITLE OF INVENTION: NM Gene and Protein
FILE REFERENCE: D-0021.5B-2
CURRENT APPLICATION NUMBER: US/09/967,237
CURRENT FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: 09/178,115
PRIOR FILING DATE: 1998-10-23
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 1522
TYPE: DNA
ORGANISM: HUMAN
FEATURE:
NAME/KEY: CDS
LOCATION: (13)..(1389)

NAME/KEY: mat_peptide
LOCATION: (124)..(1389)
US-09-967-237-1

Query Match 100.0%; Score 1522; DB 10; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 AAGAGCAGCGGATGGCTCCCTGTCGCGCCAGCGCCCTGCTCCCTGTTGATCCCGGCG 60
DB 1 AAGAGCAGCGGATGGCTCCCTGTCGCGCCAGCGCCCTGCTCCCTGTTGATCCCGGCG 60
QY 61 CCGTCCAGGCGCTCACTGTGCAACTGTGCTGTCACTGTGCTGTGCTGTGCTGTGCT 120
DB 61 CCGTCCAGGCGCTCACTGTGCAACTGTGCTGTCACTGTGCTGTGCTGTGCTGTGCT 120
QY 121 CCCAGAGGTTGCCCGGATGCAAGAGATTCCCTGTGGAGAGAGGCTCTTCTGGGAAA 180
DB 121 CCCAGAGGTTGCCCGGATGCAAGAGATTCCCTGTGGAGAGAGGCTCTTCTGGGAAA 180
QY 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
QY 241 CCAGCCGAGAGAGAGATCTACTCTGAGAGAGAGATCTACTCTGAGAGAGAGATCTA 300
DB 241 CCAGCCGAGAGAGAGATCTACTCTGAGAGAGAGATCTACTCTGAGAGAGAGATCTA 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTCTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTCTGTT 360
QY 361 GAGGCTCCCTGAGAGATCTCTCAAGAACCCAGAGATTAATGCCCAAGAGAGAGAG 420
DB 361 GAGGCTCCCTGAGAGATCTCTCAAGAACCCAGAGATTAATGCCCAAGAGAGAGAG 420
QY 421 GACAGAGATCAATTGGGCTATGAGAGGCGACCCGCGCTGGGCGCGGCTGCCAGGCTGC 480
DB 421 GACAGAGATCAATTGGGCTATGAGAGGCGACCCGCGCTGGGCGCGGCTGCCAGGCTGC 480
QY 481 GCGGCGCGCTTCAGATCCCGGCTGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGCG 540
DB 481 GCGGCGCGCTTCAGATCCCGGCTGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGCG 540
QY 541 CTGCGCGCGCTTGAATCTCTGGGCTTCCAGCTCCCGCTCCAGAACCTGCGCGCTGC 600
DB 541 CTGCGCGCGCTTGAATCTCTGGGCTTCCAGCTCCCGCTCCAGAACCTGCGCGCTGC 600
QY 601 AACCAATGGCAGAGTGTGCACTGACCTGCTCCCTGAGGCTGAGATGAGTCTGGTCCG 660
DB 601 AACCAATGGCAGAGTGTGCACTGACCTGCTCCCTGAGGCTGAGATGAGTCTGGTCCG 660
QY 661 GGGCGGAGATACCGGCTCTGCACTGTGCACTGTGCACTGTGCACTGTGCACTGTG 720
DB 661 GGGCGGAGATACCGGCTCTGCACTGTGCACTGTGCACTGTGCACTGTGCACTGTG 720
QY 721 TGGAGACAACCTGTGAGAGGCGACCGTTTCTCTGCGGAGATCCAGTGTGCTCACT 780
DB 721 TGGAGACAACCTGTGAGAGGCGACCGTTTCTCTGCGGAGATCCAGTGTGCTCACT 780
QY 781 ACCGCTTTGCGAGATTTAGAGAGGCTTGGGCGCGCGGAGAGGCTGCGCGTGGGCG 840
DB 781 ACCGCTTTGCGAGATTTAGAGAGGCTTGGGCGCGCGGAGAGGCTGCGCGTGGGCG 840
QY 841 GCTTTCTGAGAGAGGCGCGAGAGAAAACAGTCTATGAGAGATTTGCTGTGCTTG 900
DB 841 GCTTTCTGAGAGAGGCGCGAGAGAAAACAGTCTATGAGAGATTTGCTGTGCTTG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAGGTCTCCAGACTGCAATATCTGACATC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAGGTCTCCAGACTGCAATATCTGACATC 960
QY 961 CTGCGCTCTGACTTACGCGGCTACTTCAATATGAGAGGCTCTCTGACTACCGCGCTGT 1020
```

```
DB 961 CTGCGCTCTGACTTACGCGGCTACTTCAATATGAGAGGCTCTCTGACTACCGCGCTGT 1020
QY 1021 GCCCAGGCTGATCTGAGACTGTGTTAAACAGACAGTATGCTGAGTCTAAAGCAGCTC 1080
DB 1021 GCCCAGGCTGATCTGAGACTGTGTTAAACAGACAGTATGCTGAGTCTAAAGCAGCTC 1080
QY 1081 CACACCTCTGACACCTCTGAGGAGACTGAGTACTCTGAGTACTCTGAGTAACTTCCGA 1140
DB 1081 CACACCTCTGACACCTCTGAGGAGACTGAGTACTCTGAGTACTCTGAGTAACTTCCGA 1140
QY 1141 GCGAGCAGCCTTTGATAGAGGAGATGATGAGGCTCTTCCCTGCTGAGATGACAGC 1200
DB 1141 GCGAGCAGCCTTTGATAGAGGAGATGATGAGGCTCTTCCCTGCTGAGATGACAGC 1200
QY 1201 AGTCTCGGCTGCTGAGAGGACTCCAGTCAAGTCAATCTGCTGCTGCTGCTGCTG 1260
DB 1201 AGTCTCGGCTGCTGAGAGGACTCCAGTCAAGTCAATCTGCTGCTGCTGCTGCTG 1260
QY 1261 GCGCTGTTTGGGCTCCTTTTGTGCTCACAGGCTGCGCTTCTGCTGAGATGAGA 1320
DB 1261 GCGCTGTTTGGGCTCCTTTTGTGCTCACAGGCTGCGCTTCTGCTGAGATGAGA 1320
QY 1321 AGCAGCAGCAGAGGAGAAACAAAGGAGTGTGAGCTACCGCCAGCAGAGTACCGAG 1380
DB 1321 AGCAGCAGCAGAGGAGAAACAAAGGAGTGTGAGCTACCGCCAGCAGAGTACCGAG 1380
QY 1381 ACTGAGCTTGAAGCTGATCTTGGAGATGTGAGAGCCAGCCAGAGGACTTGAAGG 1440
DB 1381 ACTGAGCTTGAAGCTGATCTTGGAGATGTGAGAGCCAGCCAGAGGACTTGAAGG 1440
QY 1441 GAGGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 GAGGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1501 TTTTAAATTAATTAATTAAT 1522
```

RESULT 3
US-10-795-933-5
Sequence 5, Application US/10795933
Publication No. US20040259126A1
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021-2
CURRENT APPLICATION NUMBER: US/10/795, 933
PRIOR FILING DATE: 2004-03-08
PRIOR APPLICATION NUMBER: US/08/260, 190
PRIOR FILING DATE: 1994-06-15
PRIOR APPLICATION NUMBER: 08/177, 093
PRIOR FILING DATE: 1993-12-30
PRIOR APPLICATION NUMBER: 07/964, 589
PRIOR FILING DATE: 1992-10-21
PRIOR APPLICATION NUMBER: PV-709-92
PRIOR FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 1522
TYPE: DNA
ORGANISM: HUMAN
NAME/KEY: CDS
LOCATION: (13)..(1389)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (124)..(1389)
US-10-795-933-5

Query Match	100.0%;	Score 1522;	DB 18;	Length 1522;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1522;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	AAAGTCAGCCGATATGGCTCCCTGGTGGCCCAACCCCTGGCTCCCTGTGTGATCCCGGCC	60
Db	1	AAAGTCAGCCGATATGGCTCCCTGGTGGCCCAACCCCTGGCTCCCTGTGTGATCCCGGCC	60
QY	61	CCTGCTCCAGGCTCATCTGTGCACTGCTGTGTCACTGCTCTCTGTATGCTTCGAT	120
Db	61	CCTGCTCCAGGCTCATCTGTGCACTGCTGTGTCACTGCTCTCTGTATGCTTCGAT	120
QY	121	CCCCGAGAGGTTGCCCCGATGCAAGAGATTCCCCCTTGGAGAGAGGCTCTTCTGGGGA	180
Db	121	CCCCGAGAGGTTGCCCCGATGCAAGAGATTCCCCCTTGGAGAGAGGCTCTTCTGGGGA	180
QY	181	GATGACCCACTGGGCGAGGAGGATCTGCCCAGTGAAGAGATTCACCAGAGAGGAGT	240
Db	181	GATGACCCACTGGGCGAGGAGGATCTGCCCAGTGAAGAGATTCACCAGAGAGGAGT	240
QY	241	CCACCCGAGAGAGAGATCTACCTTGAGAGAGATTCTACTGAGAGAGAGATCTACT	300
Db	241	CCACCCGAGAGAGAGATCTACTGAGAGAGATTCTACTGAGAGAGAGATCTACT	300
QY	301	GAAATTAAAGCCTTAATTCAGAGAAAGAGGCTCCCTGAAGTTAGAGATCTACTCTGT	360
Db	301	GAAATTAAAGCCTTAATTCAGAGAAAGAGGCTCCCTGAAGTTAGAGATCTACTCTGT	360
QY	361	GAGGCTCCCTGAGATCTCTCAAGAACCCCAAGATTAATGCCACAGGGAACAAGAGGAGT	420
Db	361	GAGGCTCCCTGAGATCTCTCAAGAACCCCAAGATTAATGCCACAGGGAACAAGAGGAGT	420
QY	421	GACCAAGATCATTTGGCGCTATGAGAGCGAACCCGCTTGAGCCCGGATGCCAGCTTC	480
Db	421	GACCAAGATCATTTGGCGCTATGAGAGCGAACCCGCTTGAGCCCGGATGCCAGCTTC	480
QY	481	GCGGCGCGCTTCAGTCCCGCGGTGAATTCGCGCCCGACGCTGCGCGCTTCGCGCGGCC	540
Db	481	GCGGCGCGCTTCAGTCCCGCGGTGAATTCGCGCCCGACGCTGCGCGCTTCGCGCGGCC	540
QY	541	CTGCGCCCCCTGGAATCTCTGGGCTTTCAGACTCCCGCGCTCCCAAACTGCGCTGCGC	600
Db	541	CTGCGCCCCCTGGAATCTCTGGGCTTTCAGACTCCCGCGCTCCCAAACTGCGCTGCGC	600
QY	601	AAACATGCGCACAGTGTGCACTGACCTCTGCTCTGGGCTTAAGATGGCTTGGGTCCC	660
Db	601	AAACATGCGCACAGTGTGCACTGACCTCTGCTCTGGGCTTAAGATGGCTTGGGTCCC	660
QY	661	GCGCGGAGATACCGGAGCTCTGCAAGCTGCACTGGGGGGCTGCAAGTGTGTCCGGGC	720
Db	661	GCGCGGAGATACCGGAGCTCTGCAAGCTGCACTGGGGGGCTGCAAGTGTGTCCGGGC	720
QY	721	TCGGAGCACACTGTGGAAGGCCACCGTTTCCCTGCGAGATTCACGTGTTCACTCGAC	780
Db	721	TCGGAGCACACTGTGGAAGGCCACCGTTTCCCTGCGAGATTCACGTGTTCACTCGAC	780
QY	781	ACCGGCTTTGCAAGATTGACGAGGCCCTTGGGGGCGCCGGGAGGCTGTGGCTGTGGCC	840
Db	781	ACCGGCTTTGCAAGATTGACGAGGCCCTTGGGGGCGCCGGGAGGCTGTGGCTGTGGCC	840
QY	841	GCTTTCTTGAGAGAGGCGCCGAGAGAAAAACAGTGTCTATGACAGTTCTGTCTGCTTG	900
Db	841	GCTTTCTTGAGAGAGGCGCCGAGAGAAAAACAGTGTCTATGACAGTTCTGTCTGCTTG	900
QY	901	GAAGAAATCGCTGAGGAAGGCTCAGAGACTAGGTCCAGAGCTTGAGACATATCTGCACTC	960
Db	901	GAAGAAATCGCTGAGGAAGGCTCAGAGACTAGGTCCAGAGCTTGAGACATATCTGCACTC	960
QY	961	CTGCGCTTGACTTAGCGCGCTACTTCCAAATATGAGGGGCTCTGTGATCACCCGCGCT	1020
Db	961	CTGCGCTTGACTTAGCGCGCTACTTCCAAATATGAGGGGCTCTGTGATCACCCGCGCT	1020

QY	1021	GCCAGGGGTGCAATCTGAGACGTGTATTAAACAGACAGTGAAGCTGACGTACAGACGTC	1080
Db	1021	GCCAGGGGTGCAATCTGAGACGTGTATTAAACAGACAGTGAAGCTGACGTACAGACGTC	1080
QY	1081	CACACCCCTCTCTGACACCCCTGTGGGGGACCTGTGTACTCTGTGGCTTACAGACTGAACCTTCCGA	1140
Db	1081	CACACCCCTCTCTGACACCCCTGTGGGGGACCTGTGTACTCTGTGGCTTACAGACTGAACCTTCCGA	1140
QY	1141	GCGACGACAGCCTTTGAAATGGGGCGAGTGAATTGAGGCTCTTCCCTGCTGAGATGGACAGC	1200
Db	1141	GCGACGACAGCCTTTGAAATGGGGCGAGTGAATTGAGGCTCTTCCCTGCTGAGATGGACAGC	1200
QY	1201	AGTCTGTGGGGTGTGTAGACGATGCACACTGAATTTCCGCGCTGGGTGTGTGTGATCATCTTA	1260
Db	1201	AGTCTGTGGGGTGTGTAGACGATGCACACTGAATTTCCGCGCTGGGTGTGTGTGATCATCTTA	1260
QY	1261	GCCCTGTGTTTTGGGCTCTCTTTTGTGCTGTCAACGACGTGCGGTCTCTTGTGTGAGATGAGA	1320
Db	1261	GCCCTGTGTTTTGGGCTCTCTTTTGTGCTGTCAACGACGTGCGGTCTCTTGTGTGAGATGAGA	1320
QY	1321	AGGACGACACAGAAAGGGGAAACCAAAAGGGGGTGTGAGCTAACCGCCACGACAGAGTGAACCGAG	1380
Db	1321	AGGACGACACAGAAAGGGGAAACCAAAAGGGGGTGTGAGCTAACCGCCACGACAGAGTGAACCGAG	1380
QY	1381	ACTGGAAGCTTAGAGAGCTTGAAATCTTGGAGAAATGTGAGAAAGCCAGCCAGAGGCATCTGAGGG	1440
Db	1381	ACTGGAAGCTTAGAGAGCTTGAAATCTTGGAGAAATGTGAGAAAGCCAGCCAGAGGCATCTGAGGG	1440
QY	1441	GGAGCCGGTAACTGTCCGTGCTCGTCATATATGCACTTCCCTTTTAACTGCAAGAAATTT	1500
Db	1441	GGAGCCGGTAACTGTCCGTGCTCGTCATATATGCACTTCCCTTTTAACTGCAAGAAATTT	1500
QY	1501	TTTTAAATTAATTAATTATTAAT	1522
Db	1501	TTTTAAATTAATTAATTATTAAT	1522

RESULT 4
 US-10-888-694-1
 Sequence 1, Application US/10888694
 Publication No. US20050003425A1
 GENERAL INFORMATION:
 APPLICANT: Zavada, Jan
 Pastorekova, Silvia
 Pastorek, Jaromir
 TITLE OF INVENTION: MN Gene and Protein
 NUMBER OF SEQUENCES: 86
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Leona L. Lauder
 STREET: 465 California Street, Suite 450
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/888,694
 FILING DATE: 08-Jul-2004
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/772,719
 FILING DATE: 30-Jan-2001
 APPLICATION NUMBER: US 08/485,049
 FILING DATE: 07-JUN-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Lauder, Leona L.
 REGISTRATION NUMBER: 30,863
 REFERENCE/DOCKET NUMBER: D-0021.3A-2
 TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEetical: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
us-10-888-694-1

Query Match 100.0%; Score 1522; DB 18; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ACAGTCAGCCGAGTGGCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCCGGCC 60
1 ACAGTCAGCCGAGTGGCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCCGGCC 60
61 CCTGCTCCAGGCTCACTGTGCACTGTCTGTCACTGCTGTTCTGATGCTGTCAAT 120
61 CCTGCTCCAGGCTCACTGTGCACTGTCTGTCACTGCTGTTCTGATGCTGTCAAT 120
121 CCCGAGAGTTGCTCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTTTCTGGGAA 180
121 CCCGAGAGTTGCTCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTTTCTGGGAA 180
181 GATGACCCACTGGGAGAGAGATTCGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
181 GATGACCCACTGGGAGAGAGATTCGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
241 CCACCCGAGAGAGAGATTAATCTGAGAGAGAGATTAATCTGAGAGAGAGATTAAT 300
241 CCACCCGAGAGAGAGATTAATCTGAGAGAGAGATTAATCTGAGAGAGAGATTAAT 300
301 GAAATTAACTTAATCAAGAGAGAGGCTCCCTGAATTAAGAGATTAATCTTAATTT 360
301 GAAATTAACTTAATCAAGAGAGAGGCTCCCTGAATTAAGAGATTAATCTTAATTT 360
361 GAGGCTCCGAGAGATTCCTCAAGAACCCAGAAATTAATGAGAGAGAGAGAGAT 420
361 GAGGCTCCGAGAGATTCCTCAAGAACCCAGAAATTAATGAGAGAGAGAGAGAT 420
421 GACCAAGATCAATGAGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
421 GACCAAGATCAATGAGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
481 GCGGAGCTGCTTCAATGCTCCCGGATGATTCGCGCCAGCTTTCGCGGCC 540
481 GCGGAGCTGCTTCAATGCTCCCGGATGATTCGCGCCAGCTTTCGCGGCC 540
541 CTGCGGCTGCTGAACTCTGAGGCTTCCAGCTCCCGGCTCCCAAACTGCGCTGCG 600
541 CTGCGGCTGCTGAACTCTGAGGCTTCCAGCTCCCGGCTCCCAAACTGCGCTGCG 600
601 AACCAATGCGCACTGTGCACTGCACTGCTCTGAGGCTAAGATGCTCTGAGTCC 660
601 AACCAATGCGCACTGTGCACTGCACTGCTCTGAGGCTAAGATGCTCTGAGTCC 660
661 GGGCGGAGATACCGGAGCTCTGAGCTGATCTGCACTGAGGAGGCTCAAGTCTCG 720
661 GGGCGGAGATACCGGAGCTCTGAGCTGATCTGCACTGAGGAGGCTCAAGTCTCG 720
721 TCGAGACACACTGTGAGAGGCTCCGTTTCCCTGCGAGATTCAGCTGTCACTCAG 780
721 TCGAGACACACTGTGAGAGGCTCCGTTTCCCTGCGAGATTCAGCTGTCACTCAG 780
781 ACCGCTTTGCGAGATTCAGAGGCTTGGGAGGCTCCCGGAGGCTTGGCGCTGTTG 840
781 ACCGCTTTGCGAGATTCAGAGGCTTGGGAGGCTCCCGGAGGCTTGGCGCTGTTG 840

841 GCCTTCTGAGAGAGAGGCTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 900
841 GCCTTCTGAGAGAGAGGCTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 900
901 GAAAGAAATGCTGAGAGAGAGGCTCAGAGACTGAGTCTCCAGAGAGAGAGAGAT 960
901 GAAAGAAATGCTGAGAGAGAGGCTCAGAGACTGAGTCTCCAGAGAGAGAGAGAT 960
961 CTGCGCTGAGATTCAGAGGCTTCAATTAATGAGGAGGCTCTGATCACTGAGCT 1020
961 CTGCGCTGAGATTCAGAGGCTTCAATTAATGAGGAGGCTCTGATCACTGAGCT 1020
1021 GCCCAGAGGATGATCTGAGAGGCTGTTTAAACAGAGAGAGAGAGAGAGAGAGAT 1080
1021 GCCCAGAGGATGATCTGAGAGGCTGTTTAAACAGAGAGAGAGAGAGAGAGAGAT 1080
1081 CACACCTCTCTGAGACCTCTGAGGAGAGCTGAGTCTGAGTCACTGAGTCACT 1140
1081 CACACCTCTCTGAGACCTCTGAGGAGAGCTGAGTCTGAGTCACTGAGTCACT 1140
1141 GCGAGCAGGCTTTGAAATGAGGAGAGATTAAGGCTCTTCCCTGCTGAGAGAG 1200
1141 GCGAGCAGGCTTTGAAATGAGGAGAGATTAAGGCTCTTCCCTGCTGAGAGAG 1200
1201 AGTCTGAGGCTGAGAGGCTGAGTCACTGAGTCACTGAGTCACTGAGTCACT 1260
1201 AGTCTGAGGCTGAGAGGCTGAGTCACTGAGTCACTGAGTCACTGAGTCACT 1260
1261 GCGCTGATTTTGGCTCTCTTTTGGCTGTCACAGAGTGGCTTCTTCTGAGAG 1320
1261 GCGCTGATTTTGGCTCTCTTTTGGCTGTCACAGAGTGGCTTCTTCTGAGAG 1320
1321 AGCAGCAG 1380
1321 AGCAGCAG 1380
1381 ACTGAGCTTGAAGGCTGAGTCTTGGAGAGATGAGAGAGAGAGAGAGAGAGAG 1440
1381 ACTGAGCTTGAAGGCTGAGTCTTGGAGAGATGAGAGAGAGAGAGAGAGAGAG 1440
1441 GAGGCGGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
1441 GAGGCGGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
1501 TTTTAAATTAATTAATTAAT 1522
1501 TTTTAAATTAATTAATTAAT 1522

RESULT 5
US-09-954-456-89
Sequence 89, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Can
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456
CURRENT FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US/60/233,617
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US/60/234,052
PRIOR FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: US/60/234,923
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,134
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,637
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,638
PRIOR FILING DATE: 2000-09-26

PRIOR APPLICATION NUMBER: US/60/235,711
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,720
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,840
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,863
PRIOR FILING DATE: 2000-09-27
NUMBER OF SEQ ID NOS: 2276
SOFTWARE: PatentIn version 3.0
SEQ ID NO 89
LENGTH: 1552
TYPE: DNA
ORGANISM: Homo sapiens
US-09-954-456-89

Query Match 100.0%; Score 1522; DB 9; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AAGTACGCGCAATGAGTCTCCCTGTCGCCAGCCCTGAGCTCCCTGTGATCCCGGC 60
31 AAGTACGCGCAATGAGTCTCCCTGTCGCCAGCCCTGAGCTCCCTGTGATCCCGGC 90
61 CCTGCTCCAGGCTCACTGTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
91 CCTGCTCCAGGCTCACTGTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
121 CCCAGAGGTTGCTCCCGAGTGAAGAGATTTCCCTTGGAGAGGCTCTTCTGGGGA 180
151 CCCAGAGGTTGCTCCCGAGTGAAGAGATTTCCCTTGGAGAGGCTCTTCTGGGGA 210
181 GATGACCCACTGCGGCGAGAGAGATCTGCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
211 GATGACCCACTGCGGCGAGAGAGATCTGCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 270
241 CACCCGAGAGAGAGATCTACCTGAGAGAGAGATTTCACTGAGAGAGAGATCTACCT 300
271 CACCCGAGAGAGAGATCTACCTGAGAGAGAGATTTCACTGAGAGAGAGATCTACCT 330
301 GAAATTAAAGCTAAATCAGAGAGAGAGGCTCCCTGAAATTGAGAGATCTACTGTT 360
331 GAAATTAAAGCTAAATCAGAGAGAGAGGCTCCCTGAAATTGAGAGATCTACTGTT 390
361 GAGGCTCTCTGAGAGATCTTAAGAACCCAGATTAATGCTCCAGAGAGAGAGAGAT 420
391 GAGGCTCTCTGAGAGATCTTAAGAACCCAGATTAATGCTCCAGAGAGAGAGAT 450
421 GACGAGATCATTTGGGCTATGAGAGAGAGAGGCTCCGAGGCTGCTCCAGAGATGAC 480
451 GACGAGATCATTTGGGCTATGAGAGAGAGAGGCTCCGAGGCTGCTCCAGAGATGAC 510
481 GCGGCGCGCTTCAGTCCCGGCTGATATCGCCCGCCAGCTGCGGCTCTTGCCTGCGGC 540
511 GCGGCGCGCTTCAGTCCCGGCTGATATCGCCCGCCAGCTGCGGCTCTTGCCTGCGGC 570
541 CTGCGCGCTTGAATCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGGC 600
571 CTGCGCGCTTGAATCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGGC 630
601 AACCAATGCGCAGAGTGAAGTGAACCTGAGCTCCGAGGCTGAGAGAGAGATCTGAGGTC 660
631 AACCAATGCGCAGAGTGAAGTGAACCTGAGCTCCGAGGCTGAGAGAGAGATCTGAGGTC 690
661 GCGGCGGAGATCAGGCTCTGAGCTGATCTGCACTGAGGAGGCTGAGAGATGTCGAGGC 720
691 GCGGCGGAGATCAGGCTCTGAGCTGATCTGCACTGAGGAGGCTGAGAGATGTCGAGGC 750
721 TCGGAGCACAATGTGGAAGGCAACGTTTCCCTGCGAGATTCAGAGTGTTCACCTCAGC 780
751 TCGGAGCACAATGTGGAAGGCAACGTTTCCCTGCGAGATTCAGAGTGTTCACCTCAGC 810
781 ACCGCTTTGCGAGAGTTGACGAGGCTTGGGAGCGCCGCGAGAGGCTGAGCTGTTGGGC 840

811 ACCGCTTTGCGAGAGTTGACGAGGCTTGGGAGCGCCCGAGAGGCTGAGCTGTTGGGC 870
841 GCGTTTCTGAGAGAGGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
871 GCGTTTCTGAGAGAGGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 930
901 GAGAAATGCGTGAAGAGAGGCTCAGAGACTCAGAGTCCAGAGAGAGAGAGAGAGAGAGAG 960
931 GAGAAATGCGTGAAGAGAGGCTCAGAGACTCAGAGTCCAGAGAGAGAGAGAGAGAGAGAG 990
961 CTGCGCTTGAATCTCAGCGGCTACTTCCATATATGAGGAGGCTCTGAGTACACCGGCTGT 1020
991 CTGCGCTTGAATCTCAGCGGCTACTTCCATATATGAGGAGGCTCTGAGTACACCGGCTGT 1050
1021 GCGGAGGAGTATCTGAGTCTGTGTTTAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
1051 GCGGAGGAGTATCTGAGTCTGTGTTTAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1110
1081 CACACCTCTCTGACACCTCTGTGAGAGCTGTGAGTCTGCGGCTGACAGTGAATCTTCCGA 1140
1111 CACACCTCTCTGACACCTCTGTGAGAGCTGTGAGTCTGCGGCTGACAGTGAATCTTCCGA 1170
1141 GCGAGCAGACCTTGAATGAGGAGAGTGAATGAGGCTCTTCCCTGCTGAGAGAGAGAGAG 1200
1171 GCGAGCAGACCTTGAATGAGGAGAGTGAATGAGGCTCTTCCCTGCTGAGAGAGAGAGAG 1230
1201 AGTCTGAGGAGTCTGAGACAGTCACTGAGTGAATCTTCCCTGCTGAGAGAGAGAGAGAG 1260
1231 AGTCTGAGGAGTCTGAGACAGTCACTGAGTGAATCTTCCCTGCTGAGAGAGAGAGAGAG 1290
1261 GCGGAGTCTTGTGCTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
1291 GCGGAGTCTTGTGCTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1350
1321 AGGAGCAG 1380
1351 AGGAGCAG 1410
1381 ACTGAGGCTGAGAGGCTGAGTCTTGAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1440
1411 ACTGAGGCTGAGAGGCTGAGTCTTGAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1470
1441 GAGAGGCTGAGAGGCTGAGTCTTGAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1500
1471 GAGAGGCTGAGAGGCTGAGTCTTGAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1530
1501 TTTTAAATTAATTTTAAAT 1522
1531 TTTTAAATTAATTTTAAAT 1552

RESULT 6
US-09-954-456-726
Sequence 726, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456
CURRENT FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US/60/233,617
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US/60/234,052
PRIOR FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: US/60/234,923
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,134
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,637
PRIOR FILING DATE: 2000-09-26

```
/ PRIOR APPLICATION NUMBER: US/60/235,638
/ PRIOR FILING DATE: 2000-09-26
/ PRIOR APPLICATION NUMBER: US/60/235,711
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: US/60/235,720
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: US/60/235,840
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: US/60/235,863
/ PRIOR FILING DATE: 2000-09-27
/ NUMBER OF SEQ ID NOS: 2276
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 726
/ LENGTH: 1552
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-954-456-726

Query Match      100.0%; Score 1522; DB 9; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTACGCGCATGCTCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCGGCC 60
DB 31 ACAGTACGCGCATGCTCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCGGCC 90
QY 61 CCTGCTCCAGGCTCTCATCTGTCGAACTGCTGCTGTCATCTGCTGTTTGTGATCCCT 120
DB 91 CCTGCTCCAGGCTCTCATCTGTCGAACTGCTGCTGTCATCTGCTGTTTGTGATCCCT 150
QY 121 CCCCAAGGTTGGCCCGGATGCAAGAGATTCCCGCTGGAGAGAGGCTCTTCTGGGAA 180
DB 151 CCCCAAGGTTGGCCCGGATGCAAGAGATTCCCGCTGGAGAGAGGCTCTTCTGGGAA 210
QY 181 GATGACCACTGCGGCAAGAGATCTGCCAGTGAAGAGATTCACTCAGAGAGAGAT 240
DB 211 GATGACCACTGCGGCAAGAGATCTGCCAGTGAAGAGATTCACTCAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTACT 300
DB 271 CCACCCGAGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTACT 330
QY 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
DB 331 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGTT 390
QY 361 GAAGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCCACAGGACAAAGAGGAGAT 420
DB 391 GAAGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCCACAGGACAAAGAGGAGAT 450
QY 421 GACCAAGATCTTTGGGCTATGAGAGGACCCGCTGCGCCCGGGTGTCCCAAGCTG 480
DB 451 GACCAAGATCTTTGGGCTATGAGAGGACCCGCTGCGCCCGGGTGTCCCAAGCTG 510
QY 481 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGCTTCTGCGCGG 540
DB 511 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGCTTCTGCGCGG 570
QY 541 CTGCGCGCGCTTCAAGTCTTCTGAGCTTCAAGCTTCCGCGCTCCAGAACTGCGCG 600
DB 571 CTGCGCGCGCTTCAAGTCTTCTGAGCTTCAAGCTTCCGCGCTCCAGAACTGCGCG 630
QY 601 AACCAATGCGCAAGTGTGCACTGACCTGCTCTGCGCTGAGATGCTCTGGGTCCC 660
DB 631 AACCAATGCGCAAGTGTGCACTGACCTGCTCTGCGCTGAGATGCTCTGGGTCCC 690
QY 661 GCGGCGGAGTACCGGCTCTGAGCTGCACTGCACTGCGGAGGCTCAGAGTGTGCGG 720
DB 691 GCGGCGGAGTACCGGCTCTGAGCTGCACTGCACTGCGGAGGCTCAGAGTGTGCGG 750
QY 721 TCGAGACACATGTGAGAGCCACCGTTTCCCTGCGAGATCCACGTGTTCACCTCA 780
DB 751 TCGAGACACATGTGAGAGCCACCGTTTCCCTGCGAGATCCACGTGTTCACCTCA 810
```

```
QY 781 ACCGCTTGGCAGAGTTGACGAGGCTTGGGGCGCCCGGAGAGGCTGACCGTGGCC 840
DB 811 ACCGCTTGGCAGAGTTGACGAGGCTTGGGGCGCCCGGAGAGGCTGACCGTGGCC 870
QY 841 GCGCTTCTGAGAGAGGCGCCGAGAGAAACAGTCCATATGAGAGTGTGCTGCTG 900
DB 871 GCGCTTCTGAGAGAGGCGCCGAGAGAAACAGTCCATATGAGAGTGTGCTGCTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGTGAATATATGCACT 960
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGTGAATATATGCACT 990
QY 961 CTGCGCTCTGACTGACCGGCTACTTCAATATGAGAGGCTCTGACTCAACCGGCT 1020
DB 991 CTGCGCTCTGACTGACCGGCTACTTCAATATGAGAGGCTCTGACTCAACCGGCT 1050
QY 1021 GCCCAGGCTGCTCATCTGACTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCT 1080
DB 1051 GCCCAGGCTGCTCATCTGACTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCT 1110
QY 1081 CACACCTCTCTGACACCTCTGAGGAGCTGCTGACTCTGCGTCAAGCTGAACTTCC 1140
DB 1111 CACACCTCTCTGACACCTCTGAGGAGCTGCTGACTCTGCGTCAAGCTGAACTTCC 1170
QY 1141 GCGAGCAGCCTTTGAATGAGGAGATGATGAGGCTCCCTCCCTGCTGAGAGGAG 1200
DB 1171 GCGAGCAGCCTTTGAATGAGGAGATGATGAGGCTCCCTCCCTGCTGAGAGGAG 1230
QY 1201 AGTCTCGGAGCTGCTGAGCAGTCAAGTAAATCTGCTGCTGCTGCTGATCTTA 1260
DB 1231 AGTCTCGGAGCTGCTGAGCAGTCAAGTAAATCTGCTGCTGCTGCTGATCTTA 1290
QY 1261 GCGCTGCTTGTGCTCTCTTTTGTCTGACCAAGCTGCGCTTCTTGTGAGATGA 1320
DB 1291 GCGCTGCTTGTGCTCTCTTTTGTCTGACCAAGCTGCGCTTCTTGTGAGATGA 1350
QY 1321 AGGCAAGCAAGAAAGGAGAACAAAGGAGGCTGAGTACCGCCAGCAAGATAGCC 1380
DB 1351 AGGCAAGCAAGAAAGGAGAACAAAGGAGGCTGAGTACCGCCAGCAAGATAGCC 1410
QY 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGAGAGCCAGCCAGAGGATCTGAG 1440
DB 1411 ACTGAGCCTTGAAGGCTGATCTTGAAGATGAGAGCCAGCCAGAGGATCTGAG 1470
QY 1441 GAGCGGTAAGTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1471 GAGCGGTAAGTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
QY 1501 TTTTAAATAATATTTATTAAT 1522
DB 1531 TTTTAAATAATATTTATTAAT 1552

RESULT 7
US-09-960-706-1080
/ Sequence 1080, Application US/09960706
/ Publication No. US20030134280A1
/ GENERAL INFORMATION:
/ APPLICANT: Manger, William E.
/ TITLE OF INVENTION: Identifying Drugs for and Diagnosis of Benign Prostatic Hyperplasia
/ FILE REFERENCE: 44921-5029-01US
/ CURRENT APPLICATION NUMBER: US/09/960,706
/ PRIOR FILING DATE: 2001-09-24
/ PRIOR APPLICATION NUMBER: 60/223,323
/ PRIOR FILING DATE: 2000-06-07
/ PRIOR APPLICATION NUMBER: 09/873,319
/ PRIOR FILING DATE: 2001-06-05
/ NUMBER OF SEQ ID NOS: 1124
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1080
/ LENGTH: 1552
```

```

; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20030134280A1 X66839
US-09-960-706-1080

Query Match      100.0%; Score 1522; DB 10; Length 1552;
                  100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGAGTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCCGGC 60
DB 31 ACAGTCAGCCGATGAGTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCCGGC 90
QY 61 CCTGCTCCAGGCTCACTGTGCACTGCTGTCTCACTGCTGCTTCTGTAGCTGTCCAT 120
DB 91 CCTGCTCCAGGCTCACTGTGCACTGCTGTCTCACTGCTGCTTCTGTAGCTGTCCAT 150
QY 121 CCCCAAGGTTGCCCCCGATGCAAGAGATTTCCCTTTGGAGAGAGGCTCTTCTGGGAA 180
DB 151 CCCCAAGGTTGCCCCCGATGCAAGAGATTTCCCTTTGGAGAGAGGCTCTTCTGGGAA 210
QY 181 GATGACCCACTGAGGAGAGAGATTCGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
DB 211 GATGACCCACTGAGGAGAGAGATTCGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 300
DB 271 CCACCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 330
QY 301 GAAGTTAAGCTTAATCAAGAAGAGAGGCTCCCTGAAGTTAGAGATTTACTTCTGTT 360
DB 331 GAAGTTAAGCTTAATCAAGAAGAGAGGCTCCCTGAAGTTAGAGATTTACTTCTGTT 390
QY 361 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATTAATGCCACAGAGGACAAAGAGAGAT 420
DB 391 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATTAATGCCACAGAGGACAAAGAGAGAT 450
QY 421 GACCAAGTCAATTTGGGCTATGAGAGGCAACCCGCTGAGCCCGGAGTGTCCCAAGCTTGC 480
DB 451 GACCAAGTCAATTTGGGCTATGAGAGGCAACCCGCTGAGCCCGGAGTGTCCCAAGCTTGC 510
QY 481 GGGGGCCGCTTCAAGTCCCGGATGATATCCGCCCCCAAGCTGCGCCCTTGGCCCGGC 540
DB 511 GGGGGCCGCTTCAAGTCCCGGATGATATCCGCCCCCAAGCTGCGCCCTTGGCCCGGC 570
QY 541 CTGCGCCCTTGAATCTCTGAGGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 600
DB 571 CTGCGCCCTTGAATCTCTGAGGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 630
QY 601 AACAAATGACACAGTGTGCACTGACCTGCTCTGAGGCTTGAAGATGCTTGGAGTCCC 660
DB 631 AACAAATGACACAGTGTGCACTGACCTGCTCTGAGGCTTGAAGATGCTTGGAGTCCC 690
QY 661 GGGCGGAGTACCGGGCTGTGAGCTGATCTGCACTGGGGGGCTGCAAGGTGTCCGGGC 720
DB 691 GGGCGGAGTACCGGGCTGTGAGCTGATCTGCACTGGGGGGCTGCAAGGTGTCCGGGC 750
QY 721 TCGAGACACACTGTGGAAGGCCAGCTTTCCTGCGAGATCAAGTGTGTTCACTTCACTCAGC 780
DB 751 TCGAGACACACTGTGGAAGGCCAGCTTTCCTGCGAGATCAAGTGTGTTCACTTCACTCAGC 810
QY 781 ACCGCTTTTCCAGAGTTGACAGAGGCTTTGGAGCGCCCGGAGAGGCTTGGCTTTGGCC 840
DB 811 ACCGCTTTTCCAGAGTTGACAGAGGCTTTGGAGCGCCCGGAGAGGCTTGGCTTTGGCC 870
QY 841 GCTTTTGGAGAGAGGCGCCCGAAGAAACAGTGCCTAAGACAGTGTGTCTGCTGCTTG 900
DB 871 GCTTTTGGAGAGAGGCGCCCGAAGAAACAGTGCCTAAGACAGTGTGTCTGCTGCTTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGATCCAGAGATCTGAGACATATCTCAGCTC 960
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGATCTCAGAGATCTGAGACATATCTCAGCTC 990
```

```

QY 961 CTGCCCCCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGCTCTGTGACTACACCCGCTGT 1020
DB 991 CTGCCCCCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGCTCTGTGACTACACCCGCTGT 1050
QY 1021 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTGAATGCTAGAGCTTAAGCAGCTC 1080
DB 1051 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTGAATGCTAGAGCTTAAGCAGCTC 1110
QY 1081 CACACCTCTCTGACACCCCTGTGGAGACCTGTGTGACTCTGCGACTACAGCTGAATCTTCGA 1140
DB 1111 CACACCTCTCTGACACCCCTGTGGAGACCTGTGTGACTCTGCGACTACAGCTGAATCTTCGA 1170
QY 1141 GCGAGCAGCCTTTGAATGGCGAGTGAATTGAGGCTCTCTTCTGCTGAGTGAAGCAGC 1200
DB 1171 GCGAGCAGCCTTTGAATGGCGAGTGAATTGAGGCTCTCTTCTGCTGAGTGAAGCAGC 1230
QY 1201 AGTCTGAGGGCTGAGCAGCTCAGCTGAATTCCTGCTGAGCTGAGTGAATCTCTTA 1260
DB 1231 AGTCTGAGGGCTGAGCAGCTCAGCTGAATTCCTGCTGAGCTGAGTGAATCTCTTA 1290
QY 1261 GCCCTGTTTGTGCTCTCTTTTGTGCTGTCAACAGCGTGGCTTCTTGTGCAATGAGA 1320
DB 1291 GCCCTGTTTGTGCTCTCTTTTGTGCTGTCAACAGCGTGGCTTCTTGTGCAATGAGA 1350
QY 1321 AGGCAACACAGAGGGGAAACCAAGGGGCTGTGAGCTACCCGCCAGCAGAGTACCCAG 1380
DB 1351 AGGCAACACAGAGGGGAAACCAAGGGGCTGTGAGCTACCCGCCAGCAGAGTACCCAG 1410
QY 1381 ACTGAGCTTGAAGGCTGATCTTGAAGATGTGAGAGCCAGCAGAGAGGATCTGAGGG 1440
DB 1411 ACTGAGCTTGAAGGCTGATCTTGAAGATGTGAGAGCCAGCAGAGAGGATCTGAGGG 1470
QY 1441 GGAGCCGTTAATCTGCTGTCTCTCAATTAATGCACTTCTTTAACTGCAAGAAAT 1500
DB 1471 GGAGCCGTTAATCTGCTGTCTCTCAATTAATGCACTTCTTTAACTGCAAGAAAT 1530
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1531 TTTTAAATTAATTTTAAAT 1552
```

```

RESULT 8
US-09-873-367C-516
; Sequence 516, Application US/09873367C
; Publication No. US2003015839A1
; GENERAL INFORMATION:
; APPLICANT: Soppet, Daniel
; APPLICANT: Endress, Gregory
; APPLICANT: Augustus, Weena
; APPLICANT: Ebner, Reinhard
; APPLICANT: Carter, Kenneth
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE REFERENCE: 689290-64
; CURRENT APPLICATION NUMBER: US/09/873,367C
; PRIOR FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,891
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,842
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/244,867
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: U.S. 60/245,084
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 1067
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 516
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-873-367C-516
```


Query Match 100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ACAGTCAGCCGATGATGCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCGAGC 60
Db 31 ACAGTCAGCCGATGATGCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCGAGC 90

61 CCGTCTCCAGGCTCACTGTGCACTGTGTCATCTGTCTGCTCTGATGCTGTCAT 120
Db 91 CCGTCTCCAGGCTCACTGTGCACTGTGTCATCTGTCTGCTCTGATGCTGTCAT 150

121 CCCCAGAGGTTGCCCCGAGTGCAGAGAGATTTCCCTTTGGAGAGAGCTCTTCTGGGAA 180
Db 151 CCCCAGAGGTTGCCCCGAGTGCAGAGAGATTTCCCTTTGGAGAGAGCTCTTCTGGGAA 210

181 GATGACCCACTGAGGAGAGAGATCTGACCACTGAAGAGATTTCACTCAGAGAGAGAT 240
Db 211 GATGACCCACTGAGGAGAGAGATCTGACCACTGAAGAGATTTCACTCAGAGAGAGAT 270

241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTAATGAGAGAGAGATCTAAT 300
Db 271 CCACCCGAGAGAGAGATCTAATGAGAGAGAGATCTAATGAGAGAGAGATCTAAT 330

301 GAAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATCTAATCTGTT 360
Db 331 GAAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATCTAATCTGTT 390

361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATTAATGCCACAGAGAGAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATTAATGCCACAGAGAGAGAGAT 450

421 GACCAAGTCAATGGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
Db 451 GACCAAGTCAATGGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 510

481 GGGGGGCGTTTCAATGCTCCCGGTGATATCCGCCCCCACTGCGGCTCTTGCCCGGC 540
Db 511 GGGGGGCGTTTCAATGCTCCCGGTGATATCCGCCCCCACTGCGGCTCTTGCCCGGC 570

541 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGAGCTCCAGAACTGCGGCTGCG 600
Db 571 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGAGCTCCAGAACTGCGGCTGCG 630

601 AACAAATGCGCAAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Db 631 AACAAATGCGCAAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 690

661 GGGCGGAGATACCGGCTCTGCAAGCTGCACTGCACTGCGGGGCTGCAAGTGTGCTGCGGC 720
Db 691 GGGCGGAGATACCGGCTCTGCAAGCTGCACTGCACTGCGGGGCTGCAAGTGTGCTGCGGC 750

721 TCGAGCACTGTGAG 780
Db 751 TCGAGCACTGTGAG 810

781 ACCGCTTTGCAAGTGTGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Db 811 ACCGCTTTGCAAGTGTGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 870

841 GCGCTTTCTGAG 900
Db 871 GCGCTTTCTGAG 930

901 GAAAGAAATGCTGAG 960
Db 931 GAAAGAAATGCTGAG 990

961 CTGCGCTCTGATCTGAGCGCTAATCTCAATATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
Db 991 CTGCGCTCTGATCTGAGCGCTAATCTCAATATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1050

1021 GCCCAGGAGTCACTGAGCTGTGTTTAAACAGACAGATGATGCTGATGAGAGCTC 1080
Db 1051 GCCCAGGAGTCACTGAGCTGTGTTTAAACAGACAGATGATGCTGATGAGAGCTC 1110

1081 CACACCTTCTGACACCCCTGTGGGAGCTGTGATCTTGAGCTCAAGCTGAATTTCCGA 1140
Db 1111 CACACCTTCTGACACCCCTGTGGGAGCTGTGATCTTGAGCTCAAGCTGAATTTCCGA 1170

1141 GCGAGCAGGCTTTGAAATGGGAGAGATGAGAGGCTCTTCCCTGCTGAGATGAGAGC 1200
Db 1171 GCGAGCAGGCTTTGAAATGGGAGAGATGAGAGGCTCTTCCCTGCTGAGATGAGAGC 1230

1201 AGTCTCGGAGCTGAGAGCAGTCCAGCTGAATTTCTGCTGAGCTGAGTGAATCTTA 1260
Db 1231 AGTCTCGGAGCTGAGAGCAGTCCAGCTGAATTTCTGCTGAGCTGAGTGAATCTTA 1290

1261 GCCCTGTTTTTGAGCTCTCTTTTCTGTCACAGAGCTGAGCTTCTTGTGAGATGAGA 1320
Db 1291 GCCCTGTTTTTGAGCTCTCTTTTCTGTCACAGAGCTGAGCTTCTTGTGAGATGAGA 1350

1321 AGGCAACACAG 1380
Db 1351 AGGCAACACAG 1410

1381 ACTGAGCCTAGAGGCTGATCTTGAAGAAATGTAAGAGCCAGAGAGAGATCTGAGG 1440
Db 1411 ACTGAGCCTAGAGGCTGATCTTGAAGAAATGTAAGAGCCAGAGAGAGATCTGAGG 1470

1441 GAGGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db 1471 GAGGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530

1501 TTTTAAATTAATTTTAAAT 1522
Db 1531 TTTTAAATTAATTTTAAAT 1552

RESULT 9

US-09-968-007A-213
; Sequence 213, Application US/09968007A
; Publication No. US20040115625A1
; GENERAL INFORMATION:
; APPLICANT: Bnfer, Reinhard
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signa
; FILE REFERENCE: 689290-71
; CURRENT APPLICATION NUMBER: US/09/968,007A
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/60/237,172
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,173
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,278
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,294
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,295
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,316
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 1001
; SOFTWARE: Patencin version 3.0
; SEQ ID NO 213
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-968-007A-213

Query Match 100.0%; Score 1522; DB 11; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ACAGTCAGCCGATGATGCTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCGAGC 60

Db 31 AAGATGAGCGAGTGGCTCCCTGTCGCCAGCCCTGAGCTCCTCTGTGTGATCCCGGCC 90
Qy 61 CCTGCTCCAGGCTCACTGTGCAACTGTCTGTCTCACTGTCTTCTGATGCTGTCAAT 120
Db 91 CCGTGTCCAGGCTCACTGTGCAACTGTCTGTCTCACTGTCTTCTGATGCTGTCAAT 150
Qy 121 CCCGAGAGGTGGCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGAA 180
Db 151 CCCGAGAGGTGGCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGAA 210
Qy 181 GATGACCACTGGGCGAGAGAGATTCGCCAGTGAAGAGATTTCAACCGAGAGAGAT 240
Db 211 GATGACCACTGGGCGAGAGAGATTCGCCAGTGAAGAGATTTCAACCGAGAGAGAT 270
Qy 241 CCAACCGAGAGAGAGATTCCTGAGAGAGAGATTTCACTGAGAGAGAGATTTCACT 300
Db 271 CCAACCGAGAGAGAGATTTCACTGAGAGAGAGATTTCACTGAGAGAGAGATTTCACT 330
Qy 301 GAAATTAACCTTAATCAGAGAGAGAGGCTCCCTGAAATTAAGAGATTTACTTACTGTT 360
Db 331 GAAATTAACCTTAATCAGAGAGAGAGGCTCCCTGAAATTAAGAGATTTACTTACTGTT 390
Qy 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATTAATGCCAGAGGAGCAAGAGAGGAT 420
Db 391 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATTAATGCCAGAGGAGCAAGAGAGGAT 450
Qy 421 GACCAAGATCAATGGGCTATGAGAGGCAACCCGCTGAGCCCGGAGTGTCCCAAGCTGC 480
Db 451 GACCAAGATCAATGGGCTATGAGAGGCAACCCGCTGAGCCCGGAGTGTCCCAAGCTGC 510
Qy 481 GGGGGCCGCTTCAAGTCCCGGCTGATATCCGCCCCCACTGCGGCTTCTGCCCCGGC 540
Db 511 GGGGGCCGCTTCAAGTCCCGGCTGATATCCGCCCCCACTGCGGCTTCTGCCCCGGC 570
Qy 541 CTGGCCCCCTGAAACTCTGAGGCTTCAAGTCCCGGCTGAGGCTCCAGAACTGGGCTGCGC 600
Db 571 CTGGCCCCCTGAAACTCTGAGGCTTCAAGTCCCGGCTGAGGCTCCAGAACTGGGCTGCGC 630
Qy 601 AACCAATGGCCAGATGTGCAACTGACCTGCTCTGAGGCTTGAAGATGGCTCTGGGCTCC 660
Db 631 AACCAATGGCCAGATGTGCAACTGACCTGCTCTGAGGCTTGAAGATGGCTCTGGGCTCC 690
Qy 661 GGGGGCGGAGTACCGGCTCTGAGGCTTGAAGATGGGCGGCTGAGGCTGTCGCGGC 720
Db 691 GGGGGCGGAGTACCGGCTCTGAGGCTTGAAGATGGGCGGCTGAGGCTGTCGCGGC 750
Qy 721 TCGGAGCACTGTGGAAGGCCACCGTTCCTGCGGAGATTCAGGTGTTTCACTCAAC 780
Db 751 TCGGAGCACTGTGGAAGGCCACCGTTCCTGCGGAGATTCAGGTGTTTCACTCAAC 810
Qy 781 ACCGCTTTTCCAGAGTTGACAGAGGCTTGGGCGGCGCGGAGGCTGCGTGTGGCC 840
Db 811 ACCGCTTTTCCAGAGTTGACAGAGGCTTGGGCGGCGCGGAGGCTGCGTGTGGCC 870
Qy 841 GCGTTTCTGAGAGAGGCGCGGAGAAACAGTGGCTATGAGCAAGTGTGCTGCGTTG 900
Db 871 GCGTTTCTGAGAGAGGCGCGGAGAAACAGTGGCTATGAGCAAGTGTGCTGCGTTG 930
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAAGAGCTCAAGTCCAGAGCTGAGCAATATCTGACTC 960
Db 931 GAAAGAAATGCTGAGAGAGGCTCAAGAGCTCAAGTCCAGAGCTGAGCAATATCTGACTC 990
Qy 961 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATTAAGAGGCTCTCTGACTACCGGCTGT 1020
Db 991 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATTAAGAGGCTCTCTGACTACCGGCTGT 1050
Qy 1021 GCCCAAGGCTGCTGAGCTGCTGTTTAAACAGAGAGTGAATGCTAGGCTTAAGAGAGCTC 1080
Db 1051 GCCCAAGGCTGCTGAGCTGCTGTTTAAACAGAGAGTGAATGCTAGGCTTAAGAGAGCTC 1110
Qy 1081 CACACCTCTCTGAGACCTCTGTGGGAGACTGTGACTCTCGGCTACAGTGAATCTCCGA 1140

Db 1111 CACACCTCTCTGAGACCTCTGTGGGAGACTGTGACTCTCGGCTACAGTGAATCTCCGA 1170
Qy 1141 GCGAGCAGCCTTTGAAATGGGCGAGTGAATTAAGGCTCTTCCCTGCTGAGTGAACAGC 1200
Db 1171 GCGAGCAGCCTTTGAAATGGGCGAGTGAATTAAGGCTCTTCCCTGCTGAGTGAACAGC 1230
Qy 1201 AGTCTCGGCTGCTGAGACAGTCCAGTGAATTTCTGCGCTGCTGCTGCTGATCTCTTA 1260
Db 1231 AGTCTCGGCTGCTGAGACAGTCCAGTGAATTTCTGCGCTGCTGCTGCTGATCTCTTA 1290
Qy 1261 GCCCTGTTTGGGCTCTTCTTGTGCTGCTCAACAGCGTGGGCTTCTGCTGCTGCTGAGA 1320
Db 1291 GCCCTGTTTGGGCTCTTCTTGTGCTGCTCAACAGCGTGGGCTTCTGCTGCTGCTGAGA 1350
Qy 1321 AGGAGCAGAGAGGAGAACCAAGGGGCTGTGAGCTACCGCCAGCAGAGGTAGCCGAG 1380
Db 1351 AGGAGCAGAGAGGAGAACCAAGGGGCTGTGAGCTACCGCCAGCAGAGGTAGCCGAG 1410
Qy 1381 ACTGAGGCTGAGAGGCTGAGATCTTGAAGAAATGTAGAAACCAAGGAGATCTGAGAG 1440
Db 1411 ACTGAGGCTGAGAGGCTGAGATCTTGAAGAAATGTAGAAACCAAGGAGATCTGAGAG 1470
Qy 1441 GAGGCGGTAACTGCTGCTGCTGCTCAATTAAGCACTTCTTTTAACTGCAAGAAAT 1500
Db 1471 GAGGCGGTAACTGCTGCTGCTGCTCAATTAAGCACTTCTTTTAACTGCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 10
US-10-301-822-11
; Sequence 11, Application US/10301822
; Publication No. US20030148410A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen N.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MPM01-029P2RMM
; CURRENT APPLICATION NUMBER: US/10/301,822
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (43) ... (1422)
US-10-301-822-11

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAGATGAGCGAGTGGCTCCCTGTCGCCAGCCCTGAGCTCCTCTGTGTGATCCCGGCC 60

```

Db 31 ACAGTCACGCGAGTGGTCCCTGTGCCCCAGCCCCCTGCGTCCCTCTGTGTGATCCCGGCC 90
Qy 61 CTTGCTCCAGGCGCTCACTGTGTGAATCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
Db 91 CTTGCTCCAGGCGCTCACTGTGTGAATCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 150
Qy 121 CCCGAGAGGTTTCCCGGATGAGAGAGATTTCCCTTTGGAGAGAGCTCTTCTGCGGGA 180
Db 151 CCCGAGAGGTTTCCCGGATGAGAGAGATTTCCCTTTGGAGAGAGCTCTTCTGCGGGA 210
Qy 181 GATGACCCACTGGGCGAGAGAGATCTGCCCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGGGCGAGAGAGATCTGCCCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 270
Qy 241 CCAACCCGAGAGAGAGATTTACTTGAAGAGAGATTTACTTGAAGAGAGATTTACTTGAAG 300
Db 271 CCAACCCGAGAGAGAGATTTACTTGAAGAGAGATTTACTTGAAGAGAGATTTACTTGAAG 330
Qy 301 GAAGTTTAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATTTACTTGAAG 360
Db 331 GAAGTTTAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATTTACTTGAAG 390
Qy 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCACAGGGAACAAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCACAGGGAACAAGAGAGAT 450
Qy 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCTGCGCCCGGGTGTGCCAGGCTG 480
Db 451 GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCTGCGCCCGGGTGTGCCAGGCTG 510
Qy 481 GGGGCGCGCTTCAAGTCCCGGAGATTCGCGCCCGCCAGCTGCGCGCTTCTGCGCGGCC 540
Db 511 GGGGCGCGCTTCAAGTCCCGGAGATTCGCGCCCGCCAGCTGCGCGCTTCTGCGCGGCC 570
Qy 541 CTGCGCGCGCTTGAATCTCTGCGCTTCTGCGCTTCTGCGCGCTTCTGCGCGGCC 600
Db 571 CTGCGCGCGCTTGAATCTCTGCGCTTCTGCGCTTCTGCGCGCTTCTGCGCGGCC 630
Qy 601 AACAAATGGGCAAGTGTGCACTGACCTGCGCTTCTGCGCTTCTGCGCTTCTGCGCTTCC 660
Db 631 AACAAATGGGCAAGTGTGCACTGACCTGCGCTTCTGCGCTTCTGCGCTTCTGCGCTTCC 690
Qy 661 GGGCGGAGATCAGGCGCTGAGAGCTGATCTGCACTGAGGAGGAGCTGAGGAGGAG 720
Db 691 GGGCGGAGATCAGGCGCTGAGAGCTGATCTGCACTGAGGAGGAGCTGAGGAGGAG 750
Qy 721 TCGGAGCACTGTGTGAAGAGCACTGCTTCTGCGCGAGATCCACTGTGTTCACTCAAC 780
Db 751 TCGGAGCACTGTGTGAAGAGCACTGCTTCTGCGCGAGATCCACTGTGTTCACTCAAC 810
Qy 781 ACCGCTTTTGGCAAGTTGACAGAGGCTTGTGGGCGCCCGGAGAGGCTGCGCGCTTGTGGCC 840
Db 811 ACCGCTTTTGGCAAGTTGACAGAGGCTTGTGGGCGCCCGGAGAGGCTGCGCGCTTGTGGCC 870
Qy 841 GCTTTTGGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGATGTGCTGTGCTG 900
Db 871 GCTTTTGGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGATGTGCTGTGCTG 930
Qy 901 GAAGAAATCGTGAAGAGAGCTCAGAGATCAGAGTCCAGAGACTGAGCAATCTGCACTC 960
Db 931 GAAGAAATCGTGAAGAGAGCTCAGAGATCAGAGTCCAGAGACTGAGCAATCTGCACTC 990
Qy 961 CTGCGCTCTGACTTCAAGCGGCTTCTTCAATATGAGAGGCTCTCTGACTCAACCGCTGT 1020
Db 991 CTGCGCTCTGACTTCAAGCGGCTTCTTCAATATGAGAGGCTCTCTGACTCAACCGCTGT 1050
Qy 1021 GCGCAGAGGCTGATCTGAGCTGTGTTAACAAGACAGTATGCTGAGCTGAAGCAAGCTC 1080
Db 1051 GCGCAGAGGCTGATCTGAGCTGTGTTAACAAGACAGTATGCTGAGCTGAAGCAAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGTGACTCTCTGCGCTACAGTGAATCTTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGTGGGAGCTGTGTGACTCTCTGCGCTACAGTGAATCTTCCGA 1170

```

```

Qy 1141 GCGAGCAGCCTTTGAATGGGAGATTTGAGGCTCTTCTCTGTGAGTGAACAGC 1200
Db 1171 GCGAGCAGCCTTTGAATGGGAGATTTGAGGCTCTTCTCTGTGAGTGAACAGC 1230
Qy 1201 AGTCTCGGAGCTGAGAGCAGTCAAGTGAATTCCTGCTGAGTGTGATCTGA 1260
Db 1231 AGTCTCGGAGCTGAGAGCAGTCAAGTGAATTCCTGCTGAGTGTGATCTGA 1290
Qy 1261 GCGCTGTGTTTGGCTCTCTTTTGTGTGACACAGCTGCGCTTCTTGTGAGATGA 1320
Db 1291 GCGCTGTGTTTGGCTCTCTTTTGTGTGACACAGCTGCGCTTCTTGTGAGATGA 1350
Qy 1321 AGGCAAGCAGAGAGGAGAAACAAAGGAGTGTGAGCTACCGCCAGAGAGTACCGAG 1380
Db 1351 AGGCAAGCAGAGAGGAGAAACAAAGGAGTGTGAGCTACCGCCAGAGAGTACCGAG 1410
Qy 1381 ACTGAGCCTAGAGGCTGTGATCTTGAAGATGTGAAGACCCAGAGGCACTGAGG 1440
Db 1411 ACTGAGCCTAGAGGCTGTGATCTTGAAGATGTGAAGACCCAGAGGCACTGAGG 1470
Qy 1441 GAGCGCGTAACTGTCTGTCTCTGCTCATTAATGCCACTTCTTTTAATGCCAAGAAAT 1500
Db 1471 GAGCGCGTAACTGTCTGTCTCTGCTCATTAATGCCACTTCTTTTAATGCCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

```

```

RESULT 11
US-10-465-572-9
; Sequence 9, Application US/10465572
; Publication No. US20030207840A1
; GENERAL INFORMATION:
; APPLICANT: Riggs, Gregory
; APPLICANT: Lal, Anita
; TITLE OF INVENTION: GENES INDUCED BY HYPOXIA
; FILE REFERENCE: 000250, 00012
; CURRENT APPLICATION NUMBER: US/10/465, 572
; PRIOR FILING DATE: 2003-06-20
; PRIOR APPLICATION NUMBER: US/10/201, 642
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/307, 600
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-465-572-9

```

```

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 ACAGTCACGCGAGTGGTCCCTGTGCCCCAGCCCCCTGCGTCCCTCTGTGTGATCCCGGCC 60
Db 31 ACAGTCACGCGAGTGGTCCCTGTGCCCCAGCCCCCTGCGTCCCTCTGTGTGATCCCGGCC 90
Qy 61 CTTGCTCCAGGCGCTCACTGTGTGAATCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
Db 91 CTTGCTCCAGGCGCTCACTGTGTGAATCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 150
Qy 121 CCCGAGAGGTTTCCCGGATGAGAGAGATTTCCCTTTGGAGAGAGCTCTTCTGCGGGA 180
Db 151 CCCGAGAGGTTTCCCGGATGAGAGAGATTTCCCTTTGGAGAGAGCTCTTCTGCGGGA 210
Qy 181 GATGACCCACTGGGCGAGAGAGATCTGCCCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGGGCGAGAGAGATCTGCCCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 270

```

```
QY 241 CCACCCGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300
DB 271 CCACCCGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 330
QY 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAAGTAAAGATCTACCTACTGTT 360
DB 331 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAAGTAAAGATCTACCTACTGTT 390
QY 361 GAGGCTCTGAGAGATCTCAGAAAGCCAGAAATTAATGCCACAGGAGCAAGAGAGGAGAT 420
DB 391 GAGGCTCTGAGAGATCTCAGAAAGCCAGAAATTAATGCCACAGGAGCAAGAGAGGAGAT 450
QY 421 GACCAAGTCAATGGGCTATGAGAGGAGACCGGCTGAGGCTCCGAGGCTCCGAGCTCC 480
DB 451 GACCAAGTCAATGGGCTATGAGAGGAGACCGGCTGAGGCTCCGAGGCTCCGAGCTCC 510
QY 481 GCGGGCCGCTTCCAGTCCCGGCTGAGATATCCGCCCCAGCTGCGCTTCTGCGCGCC 540
DB 511 GCGGGCCGCTTCCAGTCCCGGCTGAGATATCCGCCCCAGCTGCGCTTCTGCGCGCC 570
QY 541 CTGCGCCCTCTGAAATCTCTGAGGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGCGC 600
DB 571 CTGCGCCCTCTGAAATCTCTGAGGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGCGC 630
QY 601 AACCAATGSCACAGTGTGCAATGACCTGCGCTCTGAGGCTGAGATGCTGCGGCTGCC 660
DB 631 AACCAATGSCACAGTGTGCAATGACCTGCGCTCTGAGGCTGAGATGCTGCGGCTGCC 690
QY 661 GAGCGGAGATACCGGCTCTGAGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGAGC 720
DB 691 GAGCGGAGATACCGGCTCTGAGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGAGC 750
QY 721 TGGAGGCAACATGCTGAAAGGCCACCGCTTCCCTGCGCGAGATCAAGTGTCACTCACT 780
DB 751 TGGAGGCAACATGCTGAAAGGCCACCGCTTCCCTGCGCGAGATCAAGTGTCACTCACT 810
QY 781 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGAGCGCCGAGAGGCTGCGCTGCTGCGCC 840
DB 811 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGAGCGCCGAGAGGCTGCGCTGCTGCGCC 870
QY 841 GCGCTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCACTGCTGCTGCTG 900
DB 871 GCGCTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCACTGCTGCTGCTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCCGAGCTGAGCACTATCTGACTC 960
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCCGAGCTGAGCACTATCTGACTC 990
QY 961 CTGCGCTCTGACTGAGCGCTACTTCCAAATGAGGAGTCTGACTGACACCGGCTGT 1020
DB 991 CTGCGCTCTGACTGAGCGCTACTTCCAAATGAGGAGTCTGACTGACACCGGCTGT 1050
QY 1021 GCGCAGGCTGCTGATCTGACTGTGTTTAAACAGAGATGATGCTGATGCTAAAGAGCTC 1080
DB 1051 GCGCAGGCTGCTGATCTGACTGTGTTTAAACAGAGATGATGCTGATGCTAAAGAGCTC 1110
QY 1081 CACACCTCTCTGACACCCCTGAGGAGCCTGCTGAGCTCTGCGCTGACAGTAACTTCCGA 1140
DB 1111 CACACCTCTCTGACACCCCTGAGGAGCCTGCTGAGCTCTGCGCTGACAGTAACTTCCGA 1170
QY 1141 GCGCAGCAGCCTTGTGATGAGGAGATGAGTGAATGAGGCTCTCTGCTGAGTGAAGCAGC 1200
DB 1171 GCGCAGCAGCCTTGTGATGAGGAGATGAGTGAATGAGGCTCTCTGCTGAGTGAAGCAGC 1230
QY 1201 AGTCTCTGAGGCTGCTGAGCAGTCAAGTGAATTTCTGCTGCTGCTGCTGCTGCTGCT 1260
DB 1231 AGTCTCTGAGGCTGCTGAGCAGTCAAGTGAATTTCTGCTGCTGCTGCTGCTGCTGCT 1290
QY 1261 GCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
DB 1291 GCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1350
QY 1321 AGGCAAGCAGAGAGGAGAACCAAGGAGGCTGAGCTACCGCCAGCAGAGGATAGCCGAG 1380
```

```
DB 1351 AGGCAAGCAGAGAGGAGAACCAAGGAGGCTGAGCTACCGCCAGCAGAGGATACCGGAG 1410
QY 1381 ACTGAGCCTTGAAGCTGATCTTGAAGATGTTGAGAGCCAGCCAGAGGATCTGAGGG 1440
DB 1411 ACTGAGCCTTGAAGCTGATCTTGAAGATGTTGAGAGCCAGCCAGAGGATCTGAGGG 1470
QY 1441 GGAGCCGGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1471 GGAGCCGGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 12
US-10-172-118-574
; Sequence 574, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9101-175-999
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 574
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATON INFORMATION:
; DATABASE ACCESSION NUMBER: NM_001216
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-574

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTACGCCGAGATGCTCCCTGTGCGCCAGAGGCTGCTCCCTGTGATCCCGGCC 60
DB 31 ACAGTACGCCGAGATGCTCCCTGTGCGCCAGAGGCTGCTCCCTGTGATCCCGGCC 90
QY 61 CTGCTCAGAGCTCAGTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 91 CTGCTCAGAGCTCAGTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
QY 121 CCCAGAGGTTGCCCGGATGCAAGAGATTTCCCTTGGAGAGGCTCTTGGGAGAA 180
DB 151 CCCAGAGGTTGCCCGGATGCAAGAGATTTCCCTTGGAGAGGCTCTTGGGAGAA 210
QY 181 GATGACCACTGGGCGAGAGAGATCTTCCCAAGTGAAGAGATTTCCCAAGAGAGAGAT 240
DB 211 GATGACCACTGGGCGAGAGAGATCTTCCCAAGTGAAGAGATTTCCCAAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACCT 300
DB 271 CCACCCGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACCT 330
QY 301 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAAGTAAAGATCTTACTGTT 360
DB 331 GAAATTAAAGCTTAATCAGAAAGAGAGGCTCCCTGAAAGTAAAGATCTTACTGTT 390
```

361 GAGGCTCTGAGATCTCTCAAGAACCCAGAAATATATGCCACAGGAGCAAGAGGGAT 420
391 GAGGCTCTCTGAGATCTCTCAAGAACCCAGAAATATATGCCACAGGAGCAAGAGGGAT 450
421 GACCAAGATCATTTGGCGCTATGAGGCGAACCCGCTGGCCCCGGGTGTCCCAAGCTGC 480
451 GACCAAGATCATTTGGCGCTATGAGGCGAACCCGCTGGCCCCGGGTGTCCCAAGCTGC 510
481 GGGGGCGGCTTCAAGTCCCGGGTGAATACCGCCCCCACTGGCGGCTTTCGCCCCGCC 540
511 GGGGGCGGCTTCAAGTCCCGGGTGAATACCGCCCCCACTGGCGGCTTTCGCCCCGCC 570
541 CTGGCCCCCTTGAAATCTCTGGGCTTCAAGTCCCGCGCTCCAGAACTGGCGCTGC 600
571 CTGGCCCCCTTGAAATCTCTGGGCTTCAAGTCCCGCGCTCCAGAACTGGCGCTGC 630
601 AACAAATGACAGTGTGCACTGACCTGCTCTGGGCTTGAAGATGAGCTTGGGCTCC 660
631 AACAAATGACAGTGTGCACTGACCTGCTCTGGGCTTGAAGATGAGCTTGGGCTCC 690
661 GGGGGCGGATACCGGCTCTGACAGTGTGCACTGGGGGGCTGACAGTGTCCGGGC 720
691 GGGGGCGGATACCGGCTCTGACAGTGTGCACTGGGGGGCTGACAGTGTCCGGGC 750
721 TGGAGACACATGTGGAAGGCGACGCTTCCCTGCGAGATCACTGGGTTCACTCAGC 780
751 TGGAGACACATGTGGAAGGCGACGCTTCCCTGCGAGATCACTGGGTTCACTCAGC 810
781 ACCGCTTTGCGAAGTTGACAGAGGCTTGGGGCGCGCGAGAGGCTGCGTGTGGCC 840
811 ACCGCTTTGCGAAGTTGACAGAGGCTTGGGGCGCGCGAGAGGCTGCGTGTGGCC 870
841 GCTTTTCTGAGAGAGGGCGCGAGAGAAACATGCTCTATGACAGTGTGCTGTGGCTTG 900
871 GCTTTTCTGAGAGAGGGCGCGAGAGAAACATGCTCTATGACAGTGTGCTGTGGCTTG 930
901 GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGAGTCCAGAGCTGAGCATATCTGACATC 960
931 GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGAGTCCAGAGCTGAGCATATCTGACATC 990
961 CTGGCTCTGACTTCAAGCGCTACTTCAATATGAGAGGCTCTGACTTCAACCGCGCTGT 1020
991 CTGGCTCTGACTTCAAGCGCTACTTCAATATGAGAGGCTCTGACTTCAACCGCGCTGT 1050
1021 GCGCAGGAGTCACTGAGCTGTGTTAACAGACAGTATGTGAGTCTAAGACAGCTC 1080
1051 GCGCAGGAGTCACTGAGCTGTGTTAACAGACAGTATGTGAGTCTAAGACAGCTC 1110
1081 CACACCTCTCTGACACCTGTGGGGGACTGAGTGAATCTGGCTACAGTGAATTCGGA 1140
1111 CACACCTCTCTGACACCTGTGGGGGACTGAGTGAATCTGGCTACAGTGAATTCGGA 1170
1141 GCGCAGCAGCTTTGAAATGAGGCGAGTGAATGAGCTCTTCTGCTGAGTGAAGCAGC 1200
1171 GCGCAGCAGCTTTGAAATGAGGCGAGTGAATGAGGCTCTTCTGCTGAGTGAAGCAGC 1230
1201 AGTCTCTGGGCTGCTGAGCAGTCCAGTGAATTCCTGCTGCTGCTGCTGCTGCTGA 1260
1231 AGTCTCTGGGCTGCTGAGCAGTCCAGTGAATTCCTGCTGCTGCTGCTGCTGCTGA 1290
1261 GCGCTGCTTTGGGCTCTTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGA 1320
1291 GCGCTGCTTTGGGCTCTTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGA 1350
1321 AGGCAAGCAGAGAGGGAACCAAGGGGCTGTGAGCTACCGCTCAGAGAGTGAAGCGAG 1380
1351 AGGCAAGCAGAGAGGGAACCAAGGGGCTGTGAGCTACCGCTCAGAGAGTGAAGCGAG 1410
1381 ACTGAGCTTAAAGAGGCTGTGAGTGTGAGAAATGTGAGAAAGCAGAGGCAATCTGAAGG 1440
1411 ACTGAGCTTAAAGAGGCTGTGAGTGTGAGAAATGTGAGAAAGCAGAGGCAATCTGAAGG 1470
1441 GAGAGCGGTAACTGTCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500

1471 GAGAGCGGTAACTGTCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
1501 TTTTAAATTAATATTTATTAAT 1522
1531 TTTTAAATTAATATTTATTAAT 1552

RESULT 13
US-10-388-360-291
; Sequence 291, Application US/10388360
; Publication No. US20030225528A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH
; APPLICANT: Baker, Joffe B.
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Walker, Michael Graham
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
; FILE REFERENCE: 39740-0001US
; CURRENT APPLICATION NUMBER: US/10/388,360
; PRIOR FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: US 60/412,049
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 60/364,890
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 291
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-388-360-291

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AAGTCAAGCGCATGAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
31 AAGTCAAGCGCATGAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 90
61 CCTGCTCAAGCGCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
91 CCTGCTCAAGCGCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
121 CCCAAGAGGTTGCCCGGATGCAAGAGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
151 CCCAAGAGGTTGCCCGGATGCAAGAGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 210
181 GATGACCACTGAGGCGAGAGGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
211 GATGACCACTGAGGCGAGAGGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 270
241 CCAAGCGAGAGAGATCTAAGTGAAGAGAGATCTAAGTGAAGAGAGATCTAAGTGAAGAG 300
271 CCAAGCGAGAGAGATCTAAGTGAAGAGAGATCTAAGTGAAGAGAGATCTAAGTGAAGAG 330
301 GAAATTAAGCTTAATCAAGAAAGAGGCTCCCTGAAGTGAAGATCTAAGTGAAGATCTA 360
331 GAAATTAAGCTTAATCAAGAAAGAGGCTCCCTGAAGTGAAGATCTAAGTGAAGATCTA 390
361 GAGGCTCTGAGATCTTCAAGAACCCAGAAATATATGCCACAGGAGCAAGAGGGAT 420
391 GAGGCTCTCTGAGATCTTCAAGAACCCAGAAATATATGCCACAGGAGCAAGAGGGAT 450
421 GACCAAGATCATTTGGCGCTATGAGGCGAACCCGCTGGCCCCGGGTGTCCCAAGCTGC 480
451 GACCAAGATCATTTGGCGCTATGAGGCGAACCCGCTGGCCCCGGGTGTCCCAAGCTGC 510
481 GGGGGCGGCTTCAAGTCCCGGGTGAATACCGCCCCCACTGGCGGCTTTCGCCCCGCC 540

Db	511	GGGGGCGCGCTTCAGATCCCGGGAGATATACGGCCCCCAGCTCGCGCGCTTCTGCGCGGCC	570
Qy	541	CTGGCGCCCCCTGGAACTCTCTGGGGCTTCAGACTCCGCGCGCTCCAGAACTGGCGCTGGCG	600
Db	571	CTGGCGCCCCCTGGAACTCTGGGGCTTCAGACTCCGCGCGCTCCAGAACTGGCGCTGGCG	630
Qy	601	AACAATGGCCACAGTGTGCAACTGACCTGCGCTCTGGGCTAGAGATGGCTCTGGGTCC	660
Db	631	AACAATGGCCACAGTGTGCAACTGACCTGCGCTCTGGGCTAGAGATGGCTCTGGGTCC	690
Qy	661	GGGCGGGAGTACCGGGCTCTGCAAGCTGCATCTGCACTGGGGGGCTGAGGTCTCGGGC	720
Db	691	GGGCGGGAGTACCGGGCTCTGCAAGCTGCATCTGCACTGGGGGGCTGAGGTCTCGGGC	750
Qy	721	TCGGAGCACACTGTGAAAGGCCACCGCTTCCCTGCGAGATCCACGNGTTCACTCAG	780
Db	751	TCGGAGCACACTGTGAAAGGCCACCGCTTCCCTGCGAGATCCACGNGTTCACTCAG	810
Qy	781	ACCGCCTTTTGCACAGATTGACGAGGCTTTGGGGCGCCCGAGAGGCTCGCGCGTGGCC	840
Db	811	ACCGCCTTTTGCACAGATTGACGAGGCTTTGGGGCGCCCGAGAGGCTCGCGCGTGGCC	870
Qy	841	GCGCTTCTGAGGAGGGGCCCGGAAAGAAACAGTGCCTATGAGAGATGGATCTGCTCCCTG	900
Db	871	GCGCTTCTGAGGAGGGGCCCGGAAAGAAACAGTGCCTATGAGAGATGGATCTGCTCCCTG	930
Qy	901	GAAGAATCGCTGAGGAAGGCTCAGAGACTCAGGTCCAGAGCTGAGCAATCTGCACTC	960
Db	931	GAAGAATCGCTGAGGAAGGCTCAGAGACTCAGGTCCAGAGCTGAGCAATCTGCACTC	990
Qy	961	CTGCCCTCTGACTTCACCGCGCTACTTCCTCAATATGAGGGGCTCTGACTACACGCGCTGT	102
Db	991	CTGCCCTCTGACTTCACCGCGCTACTTCCTCAATATGAGGGGCTCTGACTACACGCGCTGT	105
Qy	1021	GCCACGGGTGTCATCTGCACTGTGTTTAAACAGACAGTATGTGATGTCTAGCTAGCAGCTC	108
Db	1051	GCCACGGGTGTCATCTGCACTGTGTTTAAACAGACAGTATGTGATGTCTAGCTAGCAGCTC	111
Qy	1081	CACACCTCTCTGACACCCCTGTGGGACCTGTGACTCTTGCGCTACACTGAACCTTCCGA	114
Db	1111	CACACCTCTCTGACACCCCTGTGGGACCTGTGACTCTTGCGCTACACTGAACCTTCCGA	117
Qy	1141	GGAGCGCAGCTTTGAAATGGGGGAGATTGAGGCGCTCCCTGCTGGAGTGGAGCAGC	120
Db	1171	GGAGCGCAGCTTTGAAATGGGGGAGATTGAGGCGCTCCCTGCTGGAGTGGAGCAGC	123
Qy	1201	AGTCTCTGGGCTGTGAGGCAGTCCAGCTGAATTCCTGCTGGCTGCTGGTGCATCTTA	126
Db	1231	AGTCTCTGGGCTGTGAGGCAGTCCAGCTGAATTCCTGCTGGCTGCTGGTGCATCTTA	129
Qy	1261	GCGCTGTGTTTGGGCTCCTTTTGTGTGACACAGGCTGGGCTTCTTGTGCAGATGAA	132
Db	1291	GCGCTGTGTTTGGGCTCCTTTTGTGTGACACAGGCTGGGCTTCTTGTGCAGATGAA	135
Qy	1321	AGGCAAGACAGAAAGGGGAAACAAAGGGGGTGTGACTACCGCCACAGAGTAGCCGAG	138
Db	1351	AGGCAAGACAGAAAGGGGAAACAAAGGGGGTGTGACTACCGCCACAGAGTAGCCGAG	141
Qy	1381	ACTGAGAGCTTAAGAGCTTGATCTTGGAGATGTGAGAGCCAGCCAGAGGCACTGAGGG	144
Db	1411	ACTGAGAGCTTAAGAGCTTGATCTTGGAGATGTGAGAGCCAGCCAGAGGCACTGAGGG	147
Qy	1441	GGAGCGGATPACGTGCTGTCCGCTCATTTATGCACTTCCTTTAACTGCCAAGAAAT	150
Db	1471	GGAGCGGATPACGTGCTGTCCGCTCATTTATGCACTTCCTTTAACTGCCAAGAAAT	153
Qy	1501	TTTTAAATTAATATTATTAAT	1522
Db	1531	TTTTAAATTAATATTATTAAT	1552

```

/ Sequence 305, Application US/10295027
/ Publication No. US20030232350A1
/ GENERAL INFORMATION:
/ APPLICANT: Afar, Daniel
/ APPLICANT: Aziz, Nataasha
/ APPLICANT: Ginsberg, Wendy M.
/ APPLICANT: Gish, Kurt C.
/ APPLICANT: Glynn, Richard
/ APPLICANT: Hevezi, Peter A.
/ APPLICANT: Mack, David H.
/ APPLICANT: Murray, Richard
/ APPLICANT: Watson, Susan R.
/ APPLICANT: Eos Biotechnology, Inc.
/ TITLE OF INVENTION: Methods of diagnosis of Cancer, Compositions and
/ FILE REFERENCE: 019501-012500US
/ CURRENT APPLICATION NUMBER: US/10/295,027
/ CURRENT FILING DATE: 2002-11-13
/ PRIOR APPLICATION NUMBER: US 09/663,733
/ PRIOR FILING DATE: 2000-09-15
/ PRIOR APPLICATION NUMBER: US 60/350,666
/ PRIOR FILING DATE: 2001-11-13
/ PRIOR APPLICATION NUMBER: US 60/335,394
/ PRIOR FILING DATE: 2001-11-15
/ PRIOR APPLICATION NUMBER: US 60/332,464
/ PRIOR FILING DATE: 2001-11-21
/ PRIOR APPLICATION NUMBER: US 60/334,393
/ PRIOR FILING DATE: 2001-11-29
/ PRIOR APPLICATION NUMBER: US 60/340,376
/ PRIOR FILING DATE: 2001-12-14
/ PRIOR APPLICATION NUMBER: US 60/347,211
/ PRIOR FILING DATE: 2002-01-08
/ PRIOR APPLICATION NUMBER: US 60/347,349
/ PRIOR FILING DATE: 2002-01-10
/ PRIOR APPLICATION NUMBER: US 60/355,250
/ PRIOR FILING DATE: 2002-02-08
/ PRIOR APPLICATION NUMBER: US 60/356,714
/ PRIOR FILING DATE: 2002-02-13
/ Remaining Prior Application data removed - See file wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 1386
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 305
/ LENGTH: 1552
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-295-027-305

Query Match      100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1  ACAGTACGCCGATGATGCTCCCTGTCGCCACGCCCTCGGCTCCCTGTGTGATCCGGCC 60
DB      31  ACAGTACGCCGATGATGCTCCCTGTCGCCACGCCCTCGGCTCCCTGTGTGATCCGGCC 90

QY      61  CCGTGTCCAGGCTCACTGTGCAATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
DB      91  CCGTGTCCAGGCTCACTGTGCAATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 150

QY      121  CCCCAGAGTTGCCCCCGATGACGAGAGATTCCCCCTTGGAGAGAGCTCTTCTGGGAA 180
DB      151  CCCCAGAGTTGCCCCCGATGACGAGAGATTCCCCCTTGGAGAGAGCTCTTCTGGGAA 210

QY      181  GATGACCCATCGGCGGAGAGAGATTCGCCCATGAAAGAGATTACCCAGAGAGAGAT 240
DB      211  GATGACCCATCGGCGGAGAGAGATTCGCCCATGAAAGAGATTACCCAGAGAGAGAT 270

QY      241  CCACCCGAGAGAGAGATCTACCTGTGAGAGAGATCTACCTGTGAGAGAGAGATCTACCT 300
DB      271  CCACCCGAGAGAGAGATCTACCTGTGAGAGAGATCTACCTGTGAGAGAGAGATCTACCT 330

QY      301  GAAGTTAGCCTTAATCAGAAAGAGAGGCTCCCTGGAATTAGAGATCTACCTACTGTT 360

```


Db 331 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAAGAGATCTACTACTGTT 390
Qy 361 GAGGCTCTGAGAGATCTCTAAGAACTCCGAATATATGCCACAGGAGCAAGAGAGGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCTAAGAACTCCGAATATATGCCACAGGAGCAAGAGAGGAGAT 450
Qy 421 GACAGAGATCATTTGGGCTATGAGAGGAGACCCGCGCTGGCCCGGGTGTCCCAAGCTGC 480
Db 451 GACAGAGATCATTTGGGCTATGAGAGGAGACCCGCGCTGGCCCGGGTGTCCCAAGCTGC 510
Qy 481 GCGGCGCGCTTCCAGTCTCCCGGTGATATCCGCTCCAGTCCGCGCTTCTGCGCGCC 540
Db 511 GCGGCGCGCTTCCAGTCTCCCGGTGATATCCGCTCCAGTCCGCGCTTCTGCGCGCC 570
Qy 541 CTGCGCGCTTCCAGTCTCCCGGTGATATCCGCTCCAGTCCGCGCTTCTGCGCGCC 600
Db 571 CTGCGCGCTTCCAGTCTCCCGGTGATATCCGCTCCAGTCCGCGCTTCTGCGCGCC 630
Qy 601 AACAAATGAGCAGATGTCAGTCACTGACCTGCTCTGAGGCTAGAGATGCTCTGAGTCC 660
Db 631 AACAAATGAGCAGATGTCAGTCACTGACCTGCTCTGAGGCTAGAGATGCTCTGAGTCC 690
Qy 661 GAGGCGGAGATACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTCTGCGGAC 720
Db 691 GAGGCGGAGATACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGCAAGTCTGCGGAC 750
Qy 721 TGGGAGCAGATGTCAGAGGCTTCCCTGCGGAGATCCAGTGTGTCACCTCAGC 780
Db 751 TGGGAGCAGATGTCAGAGGCTTCCCTGCGGAGATCCAGTGTGTCACCTCAGC 810
Qy 781 ACCGCTTTGCGAGATGTCAGAGGCTTGGGCGCGCGGAGAGGCTGCGCTGTTGGCC 840
Db 811 ACCGCTTTGCGAGATGTCAGAGGCTTGGGCGCGCGGAGAGGCTGCGCTGTTGGCC 870
Qy 841 GCGCTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGCAGTGTCTGCTGCTT 900
Db 871 GCGCTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGCAGTGTCTGCTGCTT 930
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGATCTCAGTCCCGAGATGAGCATATGTCATC 960
Db 931 GAAAGAAATGCTGAGAGAGGCTCAGAGATCTCAGTCCCGAGATGAGCATATGTCATC 990
Qy 961 CTGCGCTCTGACTTCAAGCGCTACTTCAATATGAGGAGGCTCTGACTCAACCGCGCTGT 1020
Db 991 CTGCGCTCTGACTTCAAGCGCGCTACTTCAATATGAGGAGGCTCTGACTCAACCGCGCTGT 1050
Qy 1021 GCCCAGAGGTGTCATGTCAGTGTGTTAACAGACAGTATGTCAGTGTCTAAGCAGCTC 1080
Db 1051 GCCCAGAGGTGTCATGTCAGTGTGTTAACAGACAGTATGTCAGTGTCTAAGCAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGAGGAGCTGTCGTCGCTAAGCTGAACTTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGAGGAGCTGTCGTCGCTAAGCTGAACTTCCGA 1170
Qy 1141 GCGAGCAGCCTTTGAAATGAGGAGATGATGAGGCTCTCTCCCTGCTGAGATGAGCAGC 1200
Db 1171 GCGAGCAGCCTTTGAAATGAGGAGATGATGAGGCTCTCTCCCTGCTGAGATGAGCAGC 1230
Qy 1201 AGTCTCTGAGGCTGTCAGCAGTCACTGATATCTCTGCTGAGCTGTCGTCATCTTA 1260
Db 1231 AGTCTCTGAGGCTGTCAGCAGTCACTGATATCTCTGCTGAGCTGTCGTCATCTTA 1290
Qy 1261 GCGCTGCTTTTGGCTCTCTTTTGTCTGTCACAGGCTGCGCTTCTTGTGCAATGAGA 1320
Db 1291 GCGCTGCTTTTGGCTCTCTTTTGTCTGTCACAGGCTGCGCTTCTTGTGCAATGAGA 1350
Qy 1321 AGGAGCAGCAGAAAGGAGAAACAAAGGAGGAGTGAAGTCAACGACAGAGAGTGAAGCAG 1380
Db 1351 AGGAGCAGCAGAAAGGAGAAACAAAGGAGGAGTGAAGTCAACGACAGAGAGTGAAGCAG 1410
Qy 1381 ACTGAGCTTGAAGGCTGATCTTGAAGAAATGTCAGAGCCAGAGCAGATCTGAGG 1440
Db 1411 ACTGAGCTTGAAGGCTGATCTTGAAGAAATGTCAGAGCCAGAGCAGATCTGAGG 1470

Qy 1441 GGAGCGGTAACATGTCCTCTGCTGCTATTATGCACTTCTTTAATGCCAAGAAAT 1500
Db 1471 GAGCGCGTAACATGTCCTCTGCTGCTATTATGCACTTCTTTAATGCCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAATTAAT 1552

RESULT 15
US-10-295-027-1022
; Sequence 1022, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afari, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevizi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of diagnosis of Cancer. Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1022
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-1022

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTCAAGCGCATGAGCTCCCTGTGACCCAGACCCCTGCTCTCTGTGATCCCGGC 60
Db 31 ACAGTCAAGCGCATGAGCTCCCTGTGACCCAGACCCCTGCTCTCTGTGATCCCGGC 90
Qy 61 CCTGCTCCAGGCTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CCTGCTCCAGGCTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
Qy 121 CCCCAAGGTTCCCGGATGAGAGGATTCCTCCCTGGGAGAGGCTCTTCTGGGGA 180

Db 151 CCCAAGGTTGCCCGGATGCAAGAGATTCCCTTGGAGAGAGCTTTCTGGGGA 210
Qy 181 GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAAGAGAGAGAT 240
Db 211 GATGACCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAAGAGAGAGAT 270
Qy 241 CCAACCGGAGAGAGAGATCTAAGAGAGAGAGATCTAAGAGAGAGATCTAAGAT 300
Db 271 CCAACCGGAGAGAGAGATCTAAGAGAGAGAGATCTAAGAGAGAGATCTAAGAT 330
Qy 301 GAAGTTAAGCTTAATCAGAAAGAGAGAGCTCCCTGAAGTTAGAGATCTAAGAT 360
Db 331 GAAGTTAAGCTTAATCAGAAAGAGAGAGCTCCCTGAAGTTAGAGATCTAAGAT 390
Qy 361 GAGGCTCTGAGAGATCTCTCAAGAACCCAGATTAATGCCACAGGAGCAAGAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCTCAAGAACCCAGATTAATGCCACAGGAGCAAGAGAGAT 450
Qy 421 GACCAAGTCAATTGGGCTATGGAGGCGACCCGCTGGCCCGGGTGTCCCAAGCTGC 480
Db 451 GACCAAGTCAATTGGGCTATGGAGGCGACCCGCTGGCCCGGGTGTCCCAAGCTGC 510
Qy 481 GGGGGCGGCTTCCAGTCCCCGGTGAATCCGGCCCAAGCTGCGCTTCTGCGCGG 540
Db 511 GGGGGCGGCTTCCAGTCCCCGGTGAATCCGGCCCAAGCTGCGCTTCTGCGCGG 570
Qy 541 CTGGCGCCCTTGGAATCTCTGGGCTTCCAGCTTCCGCGCTCCAGAACTGCGCTGCG 600
Db 571 CTGGCGCCCTTGGAATCTCTGGGCTTCCAGCTTCCGCGCTCCAGAACTGCGCTGCG 630
Qy 601 AACCAATGGCACAGTGTGCACTGACCCGCTGCGCTGAGAGTGGCTCTGGTCCC 660
Db 631 AACCAATGGCACAGTGTGCACTGACCCGCTGCGCTGAGAGTGGCTCTGGTCCC 690
Qy 661 GGGCGGAGATCCGGCTCTGAGCTGATCTGCACTGGGCGGCTGCAAGTGTGCGG 720
Db 691 GGGCGGAGATCCGGCTCTGAGCTGATCTGCACTGGGCGGCTGCAAGTGTGCGG 750
Qy 721 TGGAGACACATGTGGAAGGCCACCGTTTCCCTGCGGAGATCAAGTGTCACTCA 780
Db 751 TGGAGACACATGTGGAAGGCCACCGTTTCCCTGCGGAGATCAAGTGTCACTCA 810
Qy 781 ACCGCTTTGCGAGATTGACGAGGCTTGGGGCGCCGGGAGGCTGGCGGTTGGCC 840
Db 811 ACCGCTTTGCGAGATTGACGAGGCTTGGGGCGCCGGGAGGCTGGCGGTTGGCC 870
Qy 841 GCTTTCTGAGAGAGGCGCGGAGAAACAGTGCCTATGACAGTGTCTGCTTG 900
Db 871 GCTTTCTGAGAGAGGCGCGGAGAAACAGTGCCTATGACAGTGTCTGCTTG 930
Qy 901 GAAGAAATGGCTGAGAGAGGCTCAGAGATCAGGTTCCAGAGCTGACATATCTGACT 960
Db 931 GAAGAAATGGCTGAGAGAGGCTCAGAGATCAGGTTCCAGAGCTGACATATCTGACT 990
Qy 961 CTGCTCTGACTGACGCGCTACTTCAATATGAGGGGTCTGTACTACACCGGCTGT 1020
Db 991 CTGCTCTGACTGACGCGCTACTTCAATATGAGGGGTCTGTACTACACCGGCTGT 1050
Qy 1021 GCCCAGGCTGATCTGATCTGTGTTAAACAGACAGTATGCTGATGAGAGCTC 1080
Db 1051 GCCCAGGCTGATCTGATCTGTGTTAAACAGACAGTATGCTGATGAGAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGGGGAGCTGTGTACTCTGCGCTACAGTGAATCTTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGGGGAGCTGTGTACTCTGCGCTACAGTGAATCTTCCGA 1170
Qy 1141 GCGAGCAGCTTTGAATGGGAGATTTAGAGGCTCTTCCCTGCTGAGTGAAGCAGC 1200
Db 1171 GCGAGCAGCTTTGAATGGGAGATTTAGAGGCTCTTCCCTGCTGAGTGAAGCAGC 1230
Qy 1201 AGTCTCTGGGCTGTGAGCAGTCCAGTGAATCTTCTGCTGCTGCTGCTGCTGCTA 1260
Db 1231 AGTCTCTGGGCTGTGAGCAGTCCAGTGAATCTTCTGCTGCTGCTGCTGCTGCTA 1290

Qy 1261 GCCCTGTTTTTGGCTCTCTTTTGTGCTGCAACAGCTGCGGTTCTTGTGAGATGAGA 1320
Db 1291 GCCCTGTTTTTGGCTCTCTTTTGTGCTGCAACAGCTGCGGTTCTTGTGAGATGAGA 1350
Qy 1321 AGGCAACACAGAGGGGAACCAAGGGGCTGTGACTACCGCCAGCAGAGGTACCGAG 1380
Db 1351 AGGCAACACAGAGGGGAACCAAGGGGCTGTGACTACCGCCAGCAGAGGTACCGAG 1410
Qy 1381 ACTGAGCTAGAGGCTGATCTTGAAGATGTGAGAAAGCAGCAGAGGCACTGAGAG 1440
Db 1411 ACTGAGCTAGAGGCTGATCTTGAAGATGTGAGAAAGCAGCAGAGGCACTGAGAG 1470
Qy 1441 GAGCGGCTAACTGTCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db 1471 GAGCGGCTAACTGTCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
Qy 1501 TTTTAAATTAATTTTAAAT 1522
Db 1531 TTTTAAATTAATTTTAAAT 1552

Search completed: February 6, 2005, 11:25:27
Job time : 868 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 07:10:26 ; Search time 4446 Seconds
(without alignments)
12474.420 Million cell updates/sec

Title: US-09-967-237A-1

Perfect score: 1522

Sequence: 1 acagtcagccgcatgctcc.....ttaaataaataattataat 1522

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 32822875 seqs, 18219865908 residues

Word size : 50

Total number of hits satisfying chosen parameters: 84

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : EST:*

1: gb_est1:*
2: gb_est2:*
3: gb_hic:*
4: gb_est3:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_gsa1:*
9: gb_gsa2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1461	96.0	1541	3	CR597234 full-length
2	1453	95.5	1523	3	CR620502 full-length
3	1418	93.2	1469	3	CR616345 full-length
4	1171	76.9	1492	3	CR590646 full-length
5	839	55.1	1009	1	AL558378 AL558378
6	825	54.2	1084	1	AL542336 AL542336
7	757	49.7	1017	5	BX401186 BX401186
8	635	41.7	927	1	AL555184 AL555184
9	619	40.7	1070	1	AL554705 AL554705
10	617	40.5	874	4	BG386425 BG386425
11	555	36.5	669	6	CA425935 CA425935
12	555	36.5	669	6	CA425935 UI-H-FBI-
13	531	34.6	627	4	BMS52941 BMS52941
14	526	34.6	659	6	CA416326 UI-H-FBI-
15	514	33.8	682	1	AI831707 AI831707
16	508	33.4	668	4	BG824243 BG824243
17	502	33.0	691	5	BU620600 BU620600
18	499	32.8	795	2	AM083555 AM083555
19	489	32.1	489	1	AI791726 AI791726
20	487	32.0	589	4	BM790508 BM790508
21	447	29.4	551	6	CA406362 CA406362
22	435	28.6	618	6	AM615291 AM615291
23	428	28.1	577	1	AI032380 AI032380
24	424	27.9	438	2	AM449513 UI-H-B13-

C 25	416	27.3	4512	3	BC038673 BC038673
C 26	407	26.7	558	1	AI769526 AI769526
C 27	404	26.5	579	1	AI400286 AI400286
C 28	390	25.6	836	5	BX383092 BX383092
C 29	384	25.2	384	4	BM826222 BM826222
C 30	383	25.2	457	4	BX115331 BX115331
C 31	377	24.8	541	4	BM792326 BM792326
C 32	373	24.5	465	2	AM293135 AM293135
C 33	373	24.5	818	2	BE548062 BE548062
C 34	370	24.3	814	1	AI241681 AI241681
C 35	354	23.3	525	1	AI799142 AI799142
C 36	325	21.4	352	7	CK903817 CK903817
C 37	319	21.0	351	7	CK903818 CK903818
C 38	319	21.0	438	2	AM612951 AM612951
C 39	312	20.5	733	4	BG819731 BG819731
C 40	308	20.2	328	4	BI964215 BI964215
C 41	307	20.2	727	5	BX370540 BX370540
C 42	305	20.0	328	4	BM052891 BM052891
C 43	302	19.8	543	1	AA879425 AA879425
C 44	301	19.8	305	1	AI307631 AI307631
C 45	291	19.1	411	2	AM206807 AM206807

ALIGNMENTS

RESULT 1	CR597234	1541 bp	mRNA	linear	HIC 21-JUL-2004
LOCUS	CR597234	full-length cDNA clone	CSOD1085YF18 of Placenta Cot 25-normalized		
DEFINITION	CR597234	1 GT:50478041			
ACCESSION	CR597234				
VERSION	CR597234.1				
KEYWORDS	HIC; CDS; cDNA				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	1 (bases 1 to 1541)				
AUTHORS	Li, W.B., Gruber, C., Jessee, J. and Polayes, D.				
TITLE	Full-length cDNA libraries and normalization				
JOURNAL	Unpublished				
REMARK	http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue (bases 1 to 1541)				
REFERENCE	2 (bases 1 to 1541)				
AUTHORS	Genoscope.				
TITLE	Direct Submission				
JOURNAL	Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : sequef@genoscope.cns.fr				
COMMENT	- Web : www.genoscope.cns.fr) 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen.				
FEATURES	location/Qualifiers				
source	1. 1541				
	/organism="Homo sapiens"				
	/mol_type="mRNA"				
	/db_xref="taxon:9606"				
	/clone="CSOD1085YF18"				
	/issue_type="Placenta Cot 25-normalized"				
	/plasmid="pCMVSPORT_6"				
ORIGIN					
Query Match	96.0% Score 1461; DB 3; Length 1541;				
Best Local Similarity	99.9% Pred. No. 0;				
Matches 1511; Conservative	0; Mismatches 1; Indels 0; Gaps 0;				
QY	1 ACAGTCAGCCGATGCTCCCTGTCGCCCCAGCCCTGCTCTGTGATCCGGCC 60				
DB	30 ACAGTCAGCCGATGCTCCCTGTCGCCCCAGCCCTGCTCTGTGATCCGGCC 89				

61 CTTGCTCCAGGCTCTGACCTGTCAGCTGCTGTCATCTGCTCTTCTGATCTGCTCCAT 120
DB CTTGCTCCAGGCTCTGACCTGTCAGCTGCTGTCATCTGCTCTTCTGATCTGCTCCAT 149
QY 121 CCCGAGAGGTTCCTCCGAGTGAAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
DB 150 CCCGAGAGGTTCCTCCGAGTGAAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGGAGAA 209
QY 181 GATGACCCACTGAGGAGAGAGATCTGCGCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 210 GATGACCCACTGAGGAGAGAGATCTGCGCAGTGAAGAGATTCACCCAGAGAGAGAT 269
QY 241 CCACTCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 300
DB 270 CCACTCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACT 329
QY 301 GAAGTTAAGCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTTACTTCTGTT 360
DB 330 GAAGTTAAGCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTTACTTCTGTT 389
QY 361 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGAGGACAAAGAGAGAT 420
DB 390 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGAGGACAAAGAGAGAT 449
QY 421 GACCAAGATCATTTGGGCTATGAGAGGCAAGCCGCTGAGGCTCCGAGGCTCCAGGCTG 480
DB 450 GACCAAGATCATTTGGGCTATGAGAGGCAAGCCGCTGAGGCTCCGAGGCTCCAGGCTG 509
QY 481 GGGGGGCGCTTCCAGTCCCGGAGATATCCGCGCCCAAGCTGCGGCTCTTGGCCGAGC 540
DB 510 GGGGGGCGCTTCCAGTCCCGGAGATATCCGCGCCCAAGCTGCGGCTCTTGGCCGAGC 569
QY 541 CTGCGCCCTTGAATCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGGCTGCGC 600
DB 570 CTGCGCCCTTGAATCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGGCTGCGC 629
QY 601 AACAAATGACCAAGTGTGCACTGACCTGCTCTGAGGCTGAGATGAGTCTTGGGCTCC 660
DB 630 AACAAATGACCAAGTGTGCACTGACCTGCTCTGAGGCTGAGATGAGTCTTGGGCTCC 689
QY 661 GGGGGGAGTACCGGCTCTGAGAGCTGCACTGAGGAGGCTGAGAGTGTCCGAGC 720
DB 690 GGGGGGAGTACCGGCTCTGAGAGCTGCACTGAGGAGGCTGAGAGTGTCCGAGC 749
QY 721 TCGGAGCACTGTGGAAGGCCACGCTTCCCTGCGAGATCAGCTGAGTCACTGAC 780
DB 750 TCGGAGCACTGTGGAAGGCCACGCTTCCCTGCGAGATCAGCTGAGTCACTGAC 809
QY 781 ACCGCTTTTGCAGAGTTGACAGAGGCTTGGGAGCGCCGAGAGGCTGAGCTGTTGGC 840
DB 810 ACCGCTTTTGCAGAGTTGACAGAGGCTTGGGAGCGCCGAGAGGCTGAGCTGTTGGC 869
QY 841 GCTTCTTGAAGAGAGGCGCGGAGAAACAGTGCCTTGAAGAGTGTGTCTGCTG 900
DB 870 GCTTCTTGAAGAGAGGCGCGGAGAAACAGTGCCTTGAAGAGTGTGTCTGCTG 929
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTGAGTCCAGAGCTGAGACATATCTGAC 960
DB 930 GAAAGAAATGCTGAGAGAGGCTCAGAGACTGAGTCCAGAGCTGAGACATATCTGAC 989
QY 961 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
DB 990 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT 1049
QY 1021 GCGCGAGGAGTATCTGAGCTGAGTGTAACTCAGAGAGAGTATCTGAGCTAAGAGAGCTC 1080
DB 1050 GCGCGAGGAGTATCTGAGCTGAGTGTAACTCAGAGAGAGTATCTGAGCTAAGAGAGCTC 1109
QY 1081 CACACCTCTCTGACACCTCTGAGAGGCTGAGTCTGAGCTACAGCTGAACTTCCGA 1140
DB 1110 CACACCTCTCTGACACCTCTGAGAGGCTGAGTCTGAGCTACAGCTGAACTTCCGA 1169

QY 1141 GCGAGCAGCCTTTGAATGAGGAGAGTGAATGAGGCTCTTCCCTGAGAGTGAACAGC 1200
DB 1170 GCGAGCAGCCTTTGAATGAGGAGAGTGAATGAGGCTCTTCCCTGAGAGTGAACAGC 1229
QY 1201 AGTCTCGAGGCTGAGAGCAGTCCAGTGAATTCCTGCTGAGTGTGATCAATCCGA 1260
DB 1230 AGTCTCGAGGCTGAGAGCAGTCCAGTGAATTCCTGCTGAGTGTGATCAATCCGA 1289
QY 1261 GCCCTGTTTTTGGCTCTCTTTTGTGCTGTCACAGCGTGGGCTCTTGTGCAATGAGA 1320
DB 1290 GCCCTGTTTTTGGCTCTCTTTTGTGCTGTCACAGCGTGGGCTCTTGTGCAATGAGA 1349
QY 1321 AGGAGCACAAGAGGAGAACCAAGAGGAGTGAAGTCCGCGAGAGAGTGAAGTGAAG 1380
DB 1350 AGGAGCACAAGAGGAGAACCAAGAGGAGTGAAGTCCGCGAGAGAGTGAAGTGAAG 1409
QY 1381 ACTGAGCTTGAAGGCTGATCTTGAAGATGATGAGAGAGCAGAGAGAGTGAAGG 1440
DB 1410 ACTGAGCTTGAAGGCTGATCTTGAAGATGATGAGAGAGCAGAGAGAGTGAAGG 1469
QY 1441 GAGGCGGTAATCTGCTGCTGCTCTGCTCATTAAGCCATTCCTTTTAAGTCCAGAAAT 1500
DB 1470 GAGGCGGTAATCTGCTGCTGCTCTGCTCATTAAGCCATTCCTTTTAAGTCCAGAAAT 1529
QY 1501 TTTTAAATTA 1512
DB 1530 TTTTAAATTA 1541

RESULT 2
LOCUS CR620502 1523 bp mRNA linear HTC 21-JUL-2004
DEFINITION Full-length cDNA clone CSDDK007YK10 of Hela cells Cot 25-normalized
of Homo sapiens (human).
ACCESSION CR620502
VERSION CR620502.1 GI:50501309
KEYWORDS HTC; CNSLT_CDNA.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS Li W.B., Gruber, C., Jeesee, J. and Polayes, P.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished
REMARK Contact: Feng Liang Email: fliang@lifetech.com URL: <http://fulllength.invitrogen.com/InvitrogenCorporation> 1600
Faraday Avenue
2 (bases 1 to 1523)
REFERENCE
AUTHORS Genoscope.
TITLE Direct Submission
JOURNAL Submitted (20-JUL-2004) Genoscope - Centre National de Sequenage :
BP 191 91006 Evry cedex - FRANCE (E-mail: sequef@genoscope.cns.fr)
COMMENT
- Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo (dt) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
FEATURES
location/Qualifiers
source
1..1523
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSDDK007YK10"
/tissue_type="Hela cells Cot 25-normalized"
/plasmid="pCMVSPORT_6"

ORIGIN
Query Match 95.5%; Score 1453; DB 3; Length 1523;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1503; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Best Local Similarity: 99.9%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;									
Matches 1468; Conservative 0;									
Qy	9	CCGCAATGAGCTCCCTGTGACGCCAGCCCTGAGCTCTCTGTGTGATCCGGGCCCTGTCC	68						
Db	1	CCGCAATGAGCTCCCTGTGACGCCAGCCCTGAGCTCTCTGTGTGATCCGGGCCCTGTCC	60						
Qy	69	AGGCTCACTGTGCAACTGTCTGTCACTGTGCTTGTGAATGCTGTCAATCCCAAG	128						
Db	61	AGGCTCACTGTGCAACTGTCTGTCACTGTGCTTGTGAATGCTGTCAATCCCAAG	120						
Qy	129	GTTCGCCCGATGCAAGAGATTCCCTTGTGAGAGAGCTCTTGTGAGAAATGACCC	188						
Db	121	GTTCGCCCGATGCAAGAGATTCCCTTGTGAGAGAGCTCTTGTGAGAAATGACCC	180						
Qy	189	ACTGGGCGAGAGATCTGCCAGTGAAGAAGATTCACTCAAGAGAGAGATCCACCCG	248						
Db	181	ACTGGGCGAGAGATCTGCCAGTGAAGAAGATTCACTCAAGAGAGAGATCCACCCG	240						
Qy	249	AGAGAGAGATCTACTTGAAGAGAGATCTACTTGAAGAGAGATCTACTTGAAGTTAA	308						
Db	241	AGAGAGAGATCTACTTGAAGAGAGATCTACTTGAAGAGAGATCTACTTGAAGTTAA	300						
Qy	309	GCCTTAATCAAGAAAGAGGCTCCCTGAAGTTAAGATCTACTTGTGTAGGCTCC	368						
Db	301	GCCTTAATCAAGAAAGAGGCTCCCTGAAGTTAAGATCTACTTGTGTAGGCTCC	360						
Qy	369	TGAGATCTCTAAGAACCCAGAAATATGCCACAGAGCAAAAGAGGAGATGACAGAG	428						
Db	361	TGAGATCTCTAAGAACCCAGAAATATGCCACAGAGCAAAAGAGGAGATGACAGAG	420						
Qy	429	TCATTGGGCTATGAGAGCGACCCGCTGTGGCTCCGGGTGTCCTCAAGCTGTGCGGGCCG	488						
Db	421	TCATTGGGCTATGAGAGCGACCCGCTGTGGCTCCGGGTGTCCTCAAGCTGTGCGGGCCG	480						
Qy	489	CTTCAAGTCCCGGAGATATCCGCGCCCAAGCTGAGCTTCTGACCGGACCTGACGCC	548						
Db	481	CTTCAAGTCCCGGAGATATCCGCGCCCAAGCTGAGCTTCTGACCGGACCTGACGCC	540						
Qy	549	CCTGGAACTCTGAGCTTCAAGCTCCGCGCTCCCAAGACTGCGCTGCGCACAATGG	608						
Db	541	CCTGGAACTCTGAGCTTCAAGCTCCGCGCTCCCAAGACTGCGCTGCGCACAATGG	600						
Qy	609	CCAAGTGTGAACCTGAACCTGAGCTCCGTGAGTGAAGATGCTGGAGTCCCGGGCGGGA	668						
Db	601	CCAAGTGTGAACCTGAACCTGAGCTCCGTGAGTGAAGATGCTGGAGTCCCGGGCGGGA	660						
Qy	669	GTACCGGCTCTGCAAGTGTCACTTGTCACTGGGGGCTCAGATCGTCCGGCTCTGAGACA	728						
Db	661	GTACCGGCTCTGCAAGTGTCACTTGTCACTGGGGGCTCAGATCGTCCGGCTCTGAGACA	720						
Qy	729	CACGTGTGAAGGCCACCGTTTCCCTGCGGAAGATCAAGTGGTTCACTTCAAGACCGCTT	788						
Db	721	CACGTGTGAAGGCCACCGTTTCCCTGCGGAAGATCAAGTGGTTCACTTCAAGACCGCTT	780						
Qy	789	TGCCAGATTTAGCAAGGCTTGTGGGGCGCCGGAGAGCTGTGGCGGTGTCCTTCT	848						
Db	781	TGCCAGATTTAGCAAGGCTTGTGGGGCGCCGGAGAGCTGTGGCGGTGTCCTTCT	840						
Qy	849	GGAGAGGGCCCGGAAAGAAAAGTGCCTTATGAGCATTTGCTGTCTGCTTGAAGAAAT	908						
Db	841	GGAGAGGGCCCGGAAAGAAAAGTGCCTTATGAGCATTTGCTGTCTGCTTGAAGAAAT	900						
Qy	909	CGCTGAGGAAGGCTCAGAGACTCAGAGTCCAGAGATGGAACATATGTGACCTGCGCTC	968						
Db	901	CGCTGAGGAAGGCTCAGAGACTCAGAGTCCAGAGATGGAACATATGTGACCTGCGCTC	960						
Qy	969	TGACTTCAAGCCGCTACTTCCAAATATGAGAGGCTCTGTGACTCAACCGCCTGTGCCAGAG	1028						
Db	961	TGACTTCAAGCCGCTACTTCCAAATATGAGAGGCTCTGTGACTCAACCGCCTGTGCCAGAG	1020						
Qy	1029	TGTGATCTGAGCTGTGTTTAACTGACAGATGATCTGATGTGTTAAGCACTTCCACCTT	1088						

Query Match	Score	DB 3	Length	1492
Db	1021	TGATCATCTGGAAGCTGTGTTTAAACAGAACAGATGCTGATGCTAAGACAGCTCCACACCT	1080	
Qy	1089	CTCTGAAACCCCTGTGGGGAACCTGTGTGACTCTGCGCTACACTGAACCTCCGAGGAGACA	1148	
Db	1081	CTCTGAAACCCCTGTGGGGAACCTGTGTGACTCTGCGCTACACTGAACCTCCGAGGAGACA	1140	
Qy	1149	GCCCTTTCGATGGGCGAGTGAATTGAGGCTCTCTCCCTGCTGAGTGAAGACAGACTCTCTG	1208	
Db	1141	GCCCTTTCGATGGGCGAGTGAATTGAGGCTCTCTCCCTGCTGAGTGAAGACAGACTCTCTG	1200	
Qy	1209	GCGCTGCTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1268	
Db	1201	GCGCTGCTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1260	
Qy	1269	TTTTGGCTCTCTTTTCTGTCTGACACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1328	
Db	1261	TTTTGGCTCTCTTTTCTGTCTGACACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1320	
Qy	1329	CAGAAAGGGAACCAAGAGGGGCTGTGAGTACACCCGACAGAGAGTACCCAGACTGAGAC	1388	
Db	1321	CAGAAAGGGAACCAAGAGGGGCTGTGAGTACACCCGACAGAGAGTACCCAGACTGAGAC	1380	
Qy	1389	CTTGAAGGCTGGATCTTGTGGAATGTGTGGAAGCAGCAGAGGAGCATCTGAGGGGAGGCGG	1448	
Db	1381	CTTGAAGGCTGGATCTTGTGGAATGTGTGGAAGCAGCAGAGGAGCATCTGAGGGGAGGCGG	1440	
Qy	1449	TAACTGTCTGTCTGCTGCTCATTAATGCGAC	1477	
Db	1441	TAACTGTCTGTCTGCTGCTCATTAATGCGAC	1469	
RESULT 4				
CR590646				
LOCUS				
DEFINITION				
ACCESSION				
VERSION				
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
REMARK</				

Best Local Similarity 99.9%; Pred. No. 0;
Matches 1221; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 1 ACAGTCAGCGCGATGAGTCTCCCTGTGCGCCAGCCCTGGCTCCCTGTGTGATCCCGGCG 60
DB 31 ACAGTCAGCGCGATGAGTCTCCCTGTGCGCCAGCCCTGGCTCCCTGTGTGATCCCGGCG 90
QY 61 CTGCTCCAGGCGCTCACTGTGCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
DB 91 CTGCTCCAGGCGCTCACTGTGCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 150
QY 121 CCCGAGAGGTTGCCCCGAGTGCAGAGAGATTCCTCCCTGTGAGAGGCTCTTCTGAGGAA 180
DB 151 CCCGAGAGGTTGCCCCGAGTGCAGAGAGATTCCTCCCTGTGAGAGGCTCTTCTGAGGAA 210
QY 181 GATGACCCCACTGGGCGAGAGAGATTCCTCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 211 GATGACCCCACTGGGCGAGAGAGATTCCTCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
QY 241 CCAACCCGAGAGAGAGATTCCTCCAGTGAAGAGATTCCTCCAGTGAAGAGATTCCTCC 300
DB 271 CCAACCCGAGAGAGAGATTCCTCCAGTGAAGAGATTCCTCCAGTGAAGAGATTCCTCC 330
QY 301 GAAGTTAAAGCTTAAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATTCCTACTGTT 360
DB 331 GAAGTTAAAGCTTAAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATTCCTACTGTT 390
QY 361 GAGGCTCTGAGAGATTCCTCAAGAACCCCAAAATATGCCCCAAGAGAGAGAGAGAT 420
DB 391 GAGGCTCTGAGAGATTCCTCAAGAACCCCAAAATATGCCCCAAGAGAGAGAGAT 450
QY 421 GAGCAGAGATTCCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 451 GAGCAGAGATTCCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 510
QY 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCCAGCTGCGCTCTTCTGCGCGCG 540
DB 511 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCCAGCTGCGCTCTTCTGCGCGCG 570
QY 541 CTGCGCGCGCTTCAAGTCCCGGTGATATCCGCCCCCAGCTGCGCTCTTCTGCGCGCG 600
DB 571 CTGCGCGCGCTTCAAGTCCCGGTGATATCCGCCCCCAGCTGCGCTCTTCTGCGCGCG 630
QY 601 AACATGCGCAGAGTGTGCACTGACCTCGCTCCCTGAGTGAAGTGTGCTCTGAGTCCC 660
DB 631 AACATGCGCAGAGTGTGCACTGACCTCGCTCCCTGAGTGAAGTGTGCTCTGAGTCCC 690
QY 661 GGGCGGAGATACCGGCTCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
DB 691 GGGCGGAGATACCGGCTCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 750
QY 721 TCGGAGCAGACTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 751 TCGGAGCAGACTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 810
QY 781 ACCGCTTGTGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 811 ACCGCTTGTGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 870
QY 841 GCTTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 871 GCTTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 930
QY 901 GAAAGAAATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB 931 GAAAGAAATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 990
QY 961 CTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 991 CTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1050
QY 1021 GCCCAGAGGTTGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080

```

```

DB 1051 GCCCAGAGGTTGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1110
QY 1081 CACACCTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 1111 CACACCTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1170
QY 1141 GCGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
DB 1171 GCGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1230
QY 1201 AGTCTCGGAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1222
DB 1231 AGTCTCGGAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1252

RESULT 5
AL558378
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
Contact: Genoscope - Centre National de Sequencage
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France
Email: sequef@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna7e=CS0DJ005PF07QPlc=5300.f.
Location/Qualifiers
1..1009
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DJ005YK14"
/cell_type="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/cell_line="JURKAT"
/clone_1lb="Homo sapiens T CELLS (JURKAT CELL LINE) COT
10-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Query Match 55.1%; Score 839; DB 1; Length 1009;
Best Local Similarity 100.0%; Pred. No. 0; Indels 0; Gaps 0;
Matches 839; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCGCGATGAGTCTCCCTGTGCGCCAGCCCTGGCTCCCTGTGTGATCCCGGCG 60
DB 31 ACAGTCAGCGCGATGAGTCTCCCTGTGCGCCAGCCCTGGCTCCCTGTGTGATCCCGGCG 90
QY 61 CTGCTCCAGGCGCTCACTGTGCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
DB 91 CTGCTCCAGGCGCTCACTGTGCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 150
QY 121 CCCGAGAGGTTGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180

```

```

Db      151  |||||CCCCAAGGTTGCCCCGGATGCGAGGAGTTCCCTTGGAGAGGCTTCTTGAGGA 210
Qy      181  GATGACCACTGGGCGAGAGAGATCTGCCAAGTAAGAGATTCACCCAGAGAGAGAT 240
Db      211  GATTGACCACTGGGCGAGAGAGATCTGCCAAGTAAGAGATTCACCCAGAGAGAGAT 270
Qy      241  CCAACCCGAGAGAGAGATCTTACTGGAGAGAGATCTTACTGGAGAGAGATCTTACT 300
Db      271  CCAACCCGAGAGAGAGATCTTACTGGAGAGAGATCTTACTGGAGAGAGATCTTACT 330
Qy      301  GAAAGTTAACTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Db      331  GAAAGTTAACTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 390
Qy      361  GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAGAT 420
Db      391  GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAGAT 450
Qy      421  GACCAAGATCATTTGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db      451  GACCAAGATCATTTGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 510
Qy      481  GGGGGGCGGTTCCAGTCCCCGGATGATCCGGCCCCAGCTGCGGCTTTCGCGGCG 540
Db      511  GGGGGGCGGTTCCAGTCCCCGGATGATCCGGCCCCAGCTGCGGCTTTCGCGGCG 570
Qy      541  CTGCGGCCCCCTGGAATCTCTGAGGCTTTCAGCTCCGCGCTCCAGAACTGCGGCTG 600
Db      571  CTGCGGCCCCCTGGAATCTCTGAGGCTTTCAGCTCCGCGCTCCAGAACTGCGGCTG 630
Qy      601  AACCAATGGGCAAGATGATGACACTGACCTGCTCTGAGGCTTTCAGAGATGCTG 660
Db      631  AACCAATGGGCAAGATGATGACACTGACCTGCTCTGAGGCTTTCAGAGATGCTG 690
Qy      661  GGGCGGAGATACCGGAGCTTTCAGAGCTGATCTGCACTGGGAGGAGCTGAGAGCT 720
Db      691  GGGCGGAGATACCGGAGCTTTCAGAGCTGATCTGCACTGGGAGGAGCTGAGAGCT 750
Qy      721  TCGGAGCACTGTGGAAGGCCACCGTTTCCCTGCGAGATCAGCTGTGTTCACTCAG 780
Db      751  TCGGAGCACTGTGGAAGGCCACCGTTTCCCTGCGAGATCAGCTGTGTTCACTCAG 810
Qy      781  ACCGCTTTTGCAGAGTTGACGAGGCTTTCGAGGCGCGGAGGAGCTTTCGAGCT 839
Db      811  ACCGCTTTTGCAGAGTTGACGAGGCTTTCGAGGCGCGGAGGAGCTTTCGAGCT 869

```

```

RESULT 6
AL542336 1084 bp mRNA linear EST 24-MAR-2004
DEFINITION AL542336 Homo sapiens PLACENTA Homo sapiens cDNA clone CS0DB010YB19
5-PRIME, mRNA sequence.
ACCESSION AL542336
VERSION AL542336.3 GI:45717912
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
1 (bases 1 to 1084)
Li W.B., Gruber C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On Feb 15, 2001 this sequence version replaced gi:30547384.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France
Email: segre@genoscope.cns.fr, Web: www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library
was not normalized. Library was constructed by Life Technologies, a

```

division of Invitrogen.
This sequence belongs to sequence cluster 8734.f
For more information about this cluster, see
<http://www.genoscope.cns.fr/cdnas/cg0DB010YB19>.
Location/Qualifiers
1..1084
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DB010YB19"
/tissue_type="PLACENTA"
/clone_lib="Homo sapiens PLACENTA"
/note="Vector: pCMVSPORT_6; 1st strand cDNA was primed
with a NotI-oligo(dT) primer. Five prime end enriched,
double-strand cDNA was digested with Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."

ORIGIN

Query Match 54.2%; Score 825; DB 1; Length 1084;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 925; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Qy      18  TCCCTGCCCCCAGGCTTCCCTGCTTGTATCCCGGCTTCTCCAGGCTTAC 77
Db      28  TCCCTGCCCCCAGGCTTCCCTGCTTGTATCCCGGCTTCTCCAGGCTTAC 87
Qy      78  TGTGCACTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 137
Db      88  TGTGCACTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 147
Qy      138  GATGAGAGAGATTTCCCTTTCGAGAGAGCTTTTCGAGAGAGATGATGATGATGAT 197
Db      148  GATGAGAGAGATTTCCCTTTCGAGAGAGCTTTTCGAGAGAGATGATGATGATGAT 207
Qy      198  GAGAGATGCGCCAGTGAAGAGATTCACCCAGAGAGAGATTCACCCAGAGAGAGAG 257
Db      208  GAGAGATGCGCCAGTGAAGAGATTCACCCAGAGAGAGATTCACCCAGAGAGAGAG 267
Qy      258  TCTACTGAGAGAGAGATCTTACTGAGAGAGATCTTACTGAGAGAGATCTTACT 317
Db      268  TCTACTGAGAGAGAGATCTTACTGAGAGAGATCTTACTGAGAGAGATCTTACT 327
Qy      318  AGAAGAGAGAGGCTTCCCTGAAATTAGAGATCTTACTGAGAGATCTTACTGAGAT 377
Db      328  AGAAGAGAGAGGCTTCCCTGAAATTAGAGATCTTACTGAGAGATCTTACTGAGAT 387
Qy      378  TCAAGAACCCAGATATATGCGCAGAGAGAGAGAGAGAGAGAGAGAGATGATGAT 437
Db      388  TCAAGAACCCAGATATATGCGCAGAGAGAGAGAGAGAGAGAGAGAGATGATGAT 447
Qy      438  CTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 497
Db      448  CTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 507
Qy      498  CCGGCTGATATCCGCCCCCAGCTGCGGCTTTCGCGGAGCTTTCGCGGAGCT 557
Db      508  CCGGCTGATATCCGCCCCCAGCTGCGGCTTTCGCGGAGCTTTCGCGGAGCT 567
Qy      558  CCTGAGGCTTCCAGCTTCCGCGGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAG 617
Db      568  CCTGAGGCTTCCAGCTTCCGCGGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAG 627
Qy      618  GCAACTGACCTTCTCTGAGAGATGATGATGATGATGATGATGATGATGATGATG 677
Db      628  GCAACTGACCTTCTCTGAGAGATGATGATGATGATGATGATGATGATGATGATG 687
Qy      678  TCTGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 737
Db      688  TCTGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 747
Qy      738  AGGCAACGTTTCCCTCCAGAGATTCAGAGATGATGATGATGATGATGATGATGAT 797

```

Genoscope - Centre National de Séquençage
BP 191 91006 Evry cedex - France
Email: secre@genoscope.cns.fr Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-Ligo (GT) primer. Five primers
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f

For more information about this cluster, see
<http://www.genoscope.cns.fr/cdna/fa/CS05DK00939H05QPlac=5300.f>.

Db	138	GATGACAGAGAAATTCCTCCCTTGGAGAGAGAGGCTCTTCTGGGGAAATGATACCACTGAGCGCA	197
Qy	198	GGAGAGATCTGCCCCAGTATAGAGATTTACCCACAGAGAGAGATTCACCCCGAGAGAGAGA	257
Db	198	GGAGGAATCTGCCCCAGTATAGAGATTTACCCACAGAGAGAGAGATTCACCCCGAGAGAGAGA	257
Qy	258	TTTACTCTGAGAGAGAGATCTACCTGAGAGAGAGATCTTACTGAGTCTTAAGCTCTTAATC	317
Db	258	TTTACTCTGAGAGAGAGATCTTACTGAGAGAGAGATCTTACTGAGTCTTAAGCTCTTAATC	317
Qy	318	AGAGAGAGAGAGGCTCCCTGGAAGTTAGAGATCTACCTACTGTTAGAGGCTCTGAGATTC	377
Db	318	AGAGAGAGAGAGGCTCCCTGGAAGTTAGAGATCTTACTACTGTTAGAGGCTCTGAGATTC	377
Qy	378	TCAAGAAACCCAGAAATATAGTCCCAAGAGGACAAAGAGGGATGACAGAGTCAATTTGGC	437
Db	378	TCAAGAAACCCAGAAATATAGTCCCAAGAGGACAAAGAGGGATGACAGAGTCAATTTGGC	437
Qy	438	CTATGAGAGGGGACCCCGCTGAGCCCGGGATGTCCCAAGCTGAGCGGGGCGCTTCCAGTC	497
Db	438	CTATGAGAGGGGACCCCGCTGAGCCCGGGATGTCCCAAGCTGAGCGGGGCGCTTCCAGTC	497
Qy	498	CCCGGTGATATTCGCGCCCGAGCTCGCGGCTTTGCGCCGAGCCTGCGCCCTCTGAACT	557
Db	498	CCCGGTGATATTCGCGCCCGAGCTCGCGGCTTTGCGCCGAGCCTCTGCGCCCTCTGAACT	557
Qy	558	CTTGGGCTTCCAGTCTCCGCGCTCCCAAGACTGCGGCTTGGCGCAATGCGCACAGTGT	617
Db	558	CTTGGGCTTCCAGTCTCCGCGCTCCCAAGACTGCGGCTTGGCGCAATGCGCACAGTGT	617
Qy	618	GCAACTGACCCCTGCTCTGAGGAGATGAGTGGCTGAGGCTCCGGGGGGAGATCCGGGC	677
Db	618	GCAACTGACCCCTGCTCTGAGGAGATGAGTGGCTGAGGCTCCGGGGGGAGATCCGGGC	677
Qy	678	TCTGACAGCTGATCTGCACTGAGGGGGCTGCAAGTCTGCGGGCTCGGAGCACTGTGGA	737
Db	678	TCTGACAGCTGATCTGCACTGAGGGGGCTGCAAGTCTGCGGGCTCGGAGCACTGTGGA	737
Qy	738	AGGCGACCGTTTCCCTGCGAGATTCACGTGTTCACTTGACCTGACACGCGCTTTGCCAAGT	797
Db	738	AGGCGACCGTTTCCCTGCGAGATTCACGTGTTCACTTGACCTGACACGCGCTTTGCCAAGT	797
Qy	798	TGACGAGGCGCTTGGGGGCGCCCGGAGGCG	825
Db	798	TGACGAGGCGCTTGGGGGCGCCCGGAGGCG	825

RESULT 8

AL555184

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

927 bp mRNA linear EST 30-MAR-2004

AL555184 Homo sapiens HEPLA CELLS COT 25-NORMALIZED Homo sapiens

CNA clone CS0DK007YK10 5-PRIME, mRNA sequence.

AL555184

AL555184.3 GI:45859224

EST.

Homo sapiens (human)

Homo sapiens

Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 927)

Li,W.B., Gruber,C., Jesssee,J. and Polayes,D.

Full-length cDNA libraries and normalization

Unpublished (2001)

On Feb 15, 2001 this sequence version replaced gi:31276993.

Contact: Genoscope

Genoscope - Centre National de Sequencage

Bp 191 51006 EVRY cedex - France

Email: seqinfo@genoscope.cns.fr, Web : www.genoscope.cns.fr

1st strand cDNA was primed with a NotI-oligo(dT) primer. Five primed

end enriched, double-strand cDNA was digested with Not I and cloned

into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library

was normalized. Library was constructed by Life Technologies, a

division of Invitrogen. This sequence belongs to sequence cluster

FEATURES

Source

Location/Qualifiers

```

1. .669
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:245703"
/tissue_type="poorly differentiated adenocarcinoma with
signed ring cell features"
/lab_host="DH10B"
/clone_id="NCL CGAP Gaa4"
/notes="Organ: stomach; Vector: pCMV-SPORT6; Site 1: SalI;
Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT
Average insert size 1.65 kb. Life Technologies catalog #
11549-011"

```

ORIGIN

Query Match	36.5%	Score 555;	DB 1;	Length 669;
Best Local Similarity	99.8%;	Pred. No. 2.7e-273;		
Matches 605;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy	917	AAAGCTCAGAACATCAGGATCCAGGACTGACATATCTGACACTCTGGCCCTCTGACTTCA	976
Db	606	AAGGCTCAGAGACATCAGGATCCAGGACTGACATATCTGACACTCTGGCCCTCTGACTTCA	547
Qy	977	GCCGCTACTTCGCAATATGAGGAGGCTCTGACTACACCGCCCTGTGACCAGGATGTCACT	1036
Db	546	GCCCCCTACTTCGCAATATGAGGAGGCTCTGACTACACCGCCCTGTGACAGGATGTCACT	487
Qy	1037	GGACTGTGTTTAAACAGACAGTGAATGCTGAGTGCTAAAGCACTCCACACCCCTCTGTGCA	1096
Db	486	GGACTGTGTTTAAACAGACAGTGAATGCTGAGTGCTAAAGCACTCCACACCCCTCTGTGCA	427
Qy	1097	CCCTGTGGGGGACCTGTGACTCTCGGACTACAGCTGAATTCCGAGCGACGAGCCTTTGA	1156
Db	426	CCCTGTGGGGGACCTGTGACTCTCGGACTACAGCTGAATTCCGAGCGACGAGCCTTTGA	367
Qy	1157	ATGGGCGAGTATATGAGGCGCTCTTCCCTGCTGAGTGAACAAGCATGCTCTTGAGTCTGCTG	1216
Db	366	ATGGGCGAGTATATGAGGCGCTCTTCCCTGCTGAGTGAACAAGCATGCTCTTGAGTCTGCTG	307
Qy	1217	AGCAGTCCAGACTGAATTCGTCGCTGGCTGCTGAGTGAATCTATGACCGCTGGATTTTGGCC	1276
Db	306	AGCAGTCCAGACTGAATTCGTCGCTGGCTGCTGAGTGAATCTATGACCGCTGGATTTTGGCC	247
Qy	1277	TCCTTTTGTCTGTCAACAAGCGTCCGGTTCCTTGTGCAATGAGAAGGACGACACAGAAAGG	1336
Db	246	TCCTTTTGTCTGTCAACAAGCGTCCGGTTCCTTGTGCAATGAGAAGGACGACACAGAAAGG	187
Qy	1337	GAACCAAAAGGGGGTGTGAGCTACCGGCCACAGCAGAGATGACCCGACATCTGGAACCTAGAGG	1396
Db	186	GAACCAAAAGGGGGTGTGAGCTACCGGCCACAGCAGAGATGACCCGACATCTGGAACCTAGAGG	127
Qy	1397	TGGATCTCTGAGAAATGTGAGAAGACCAAGCAGAGGACATCTGAAGGGGAGCCGGTAACTGTC	1456
Db	126	TGGATCTCTGAGAAATGTGAGAAGACCAAGCAGAGGACATCTGAAGGGGAGCCGGTAACTGTC	67
Qy	1457	CTGTCTCTGCTCAATTATGCACTTCTCTTTAACTGCGAAGAAATTTTAAATAATAATTT	1516
Db	66	CTGTCTCTGCTCAATTATGCACTTCTCTTTAACTGCGAAGAAATTTTAAATAATAATTT	7
Qy	1517	TATTAAT 1522	
Db	6	TATTAAT 1	

RESULT	12
CA425935/c	
LOCUS	
DEFINITION	689 bp linear EST 07-NOV-2002
ACCESSION	U1-H-FBI-beg-j-10-0-U1-s1 NC1 CGAP_FBI Homo sapiens cDNA clone
VERSION	U1-H-FBI-beg-j-10-0-U1_3' mRNA sequence.
KEYWORDS	CA425935.1 GI:24788661
	EST.

SOURCE:

ORGANISM

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

AUTHORS

11115

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: sgabbs-remail.nih.gov
Tissue Procurement: James Martin
cDNA library preparation: Dr. M. Bento Soares, University of Iowa
cDNA library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA
sequence: 1-42, >AT richlow_complexity (matched complement)
Seq primer: M13 FORWARD
SOLVA=yes.

FEATURES

Source

Location/Qualifiers

```

1. .689
./organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="U9-H-FE1-bag-1-10-0-U"
/tissue_type="Cell lines"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies)"
/clone_1fb="NCI CGAP FE1"
/name="Organ: Chondrosarcoma; Vector: pTV73-Pac
(pharmacia) with a modified polylinker; Site 1: EcoR I;
Site 2: Not I; NCI CGAP FE1 is a normalized cDNA library
derived from a pool of mRNA obtained from 3 cell lines
from grade II chondrosarcoma tissues. The library was
constructed according to Bonaldi, Lemon and Soares,
Genome Research, 6:791-806, 1996. First strand cDNA
synthesis was primed with an oligo-dT primer containing a
Not I site. Double stranded cDNA was ligated to an EcoR I
adaptor, digested with Not I, and cloned directionally
into pTV73-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
CGCTACCGAC. The cell lines were provided by Dr James
Martin from the University of Iowa.
TAG_TISSUE=human grade 2 chondrosarcoma cell line pool
TAG_LIB=U9-H-FE1
TAG_SEQ=CGCTACCGAC"

```

ORIGIN

Query Match	36.5%	Score 555;	DB 6;	Length 689;
Best Local Similarity	99.7%	Pred. No. 2.7e-273;		
Matches 655; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0;

QY	849	GGAGGAGGGCCCGGAAAGAAAACAGTGGCTTATGAGCAATTGGTGTCTGGCTTGAAGAAAT	908
Db	689	GGAGGAGGGCCCGGAAAGAAAACAGTGGCTTATGAGCAATTGGTGTCTGGCTTGAAGAAAT	630
QY	909	CGCTGAGGAAGGCTCAGAGACTCAGTCCAGGACTGACATATCTGACTCTTGCCCTC	968
Db	629	CGCTGAGGAAGGCTCAGAGACTCAGTCCAGGACTGACATATCTGACTCTTGCCCTC	570
QY	969	TGACTTCAGGCGGCTACTTCCAAATATGAGGGGCTCTGACATACACGGCGCTTGCCACGG	1028
Db	569	TGACTTCAGGCGGCTACTTCCAAATATGAGGGGCTCTGACATACACGGCGCTTGCCACGG	510
QY	1029	TGTCATCTGACATGTGTTTAAACGAGACAGTAGTGCTGACGTCTAAGCAGCTCCACACCT	1088
Db	509	TGTCATCTGACATGTGTTTAAACGAGACAGTAGTGCTGACGTCTAAGCAGCTCCACACCT	450
QY	1089	CTCTGACACCCCTGTGGGAGACCTGTGACTCTCGGCTACAGCTGAATCTTCGAGGAGAGCA	1148

DB 449 CTCTGACACCCCTGGGACCTGTGACTCTCGCTACAGCTGAACCTCCGACGACGCA 390
1149 GCGTTTGAATGGCCGAGTATTTAGAGCCCTCTCCCTGCTGAGTGAACAGAGTCTCTG 1208
DB 389 GCGTTTGAATGGCCGAGTATTTAGAGCCCTCTCCCTGCTGAGTGAACAGAGTCTCTG 330
QY 1209 GCGTGTGAGCAGTCAAGTGAATTCCTGCTGAGTGAATTCCTGAGTGAATTCCTGAGT 1268
DB 329 GCGTGTGAGCAGTCAAGTGAATTCCTGCTGAGTGAATTCCTGAGTGAATTCCTGAGT 270
QY 1269 TTTTGGCTCTTTTGTCTGTCAACAGCGTGGCTTCTTTGTCAGATGAGAGGACGCA 1328
DB 269 TTTTGGCTCTTTTGTCTGTCAACAGCGTGGCTTCTTTGTCAGATGAGAGGACGCA 210
QY 1329 CAGAGGGGAAACCAAGGGGGGTGTGAGTACCGCCGACAGAGTGAAGCCGAGTGAAGC 1388
DB 209 CAGAGGGGAAACCAAGGGGGGTGTGAGTACCGCCGACAGAGTGAAGCCGAGTGAAGC 150
QY 1389 CTAGAGGCTGATCTTGAAGATGTGAGAGGACGACGATCTGAGGGGAGCCGCG 1448
DB 149 CTAGAGGCTGATCTTGAAGATGTGAGAGGACGACGATCTGAGGGGAGCCGCG 90
QY 1449 TAAGTCTCTGCTCTGCTCATTTATGCACTTCTTTTAACTGCCAAGAAATTTTAA 1505
DB 89 TAAGTCTCTGCTCTGCTCATTTATGCACTTCTTTTAACTGCCAAGAAATTTTAA 33

RESULT 13
BM552941 627 bp mRNA 1linear EST 20-FEB-2002
LOCUS AGENCOURT_6542619 NIH_MGC_119 Homo sapiens cDNA clone IMAGE:5742739
DEFINITION 5', mRNA sequence.
ACCESSION BM552941 GI:18791234
VERSION BM552941.1
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE NIH-MGC http://mgi.nci.nih.gov/.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strauberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L14M12761 row: f column: 20
High quality sequence stop: 599.
Location/Qualifiers
1. 627
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5742739"
/feature_type="medulla"
/lab_host="DH10B"
/lab_lib="NIH_MGC_119"
/note="Organ: Brain; Vector: pCMV-Sport6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA source normal medulla from anonymous male age 27. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.3 kb, insert size range 0.9-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 013. Note: this is a NIH_MGC Library."
this is a NIH_MGC Library."

FEATURES
source

ORIGIN

Query Match 34.9%; Score 531; DB 4; Length 627;
Best Local Similarity 100.0%; Pred No. 5.9e-261;
Matches 531; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 990 ATATGAGGGGCTCTGACTACACCGCCCTGTGCCAGGGTGCATCTGACTGTGTTAA 1049
DB 52 ATATGAGGGGCTCTGACTACACCGCCCTGTGCCAGGGTGCATCTGACTGTGTTAA 111
QY 1050 CCAGACAGTATGCTGATGCTTAAGAGCTCCACCTCTCTGACACCTCTGTGGAGCC 1109
DB 112 CCAGACAGTATGCTGATGCTTAAGAGCTCCACCTCTCTGACACCTCTGTGGAGCC 171
QY 1110 TGGTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1169
DB 172 TGGTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 231
QY 1170 TGAAGGCTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1229
DB 232 TGAAGGCTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 291
QY 1230 GAAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1289
DB 292 GAAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 351
QY 1290 CACACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1349
DB 352 CACACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 411
QY 1350 TGTGAGCTACCGCCGACGAGGTAGCCGAGCTGAGAGCTGAGAGCTGATTTGAGAG 1409
DB 412 TGTGAGCTACCGCCGACGAGGTAGCCGAGCTGAGAGCTGAGAGCTGATTTGAGAG 471
QY 1410 ATGTGAGAGCCAGCCAGAGGATCTGAGAGGGAGCCGATCTGCTGCTGCTCAT 1469
DB 472 ATGTGAGAGCCAGCCAGAGGATCTGAGAGGGAGCCGATCTGCTGCTGCTCAT 531
QY 1470 TATGCCACTCTCTTTTAACTGCCAAGAAATTTTAAATTAATTTTAA 1520
DB 532 TATGCCACTCTCTTTTAACTGCCAAGAAATTTTAAATTAATTTTAA 582

RESULT 14
CA416326/c 659 bp mRNA 1linear EST 07-NOV-2002
LOCUS UI-H-FEO-bdu-1-22-0-UI.81 NCI CGAP FEO Homo sapiens cDNA clone
DEFINITION UI-H-FEO-bdu-1-22-0-UI 3', mRNA sequence.
ACCESSION CA416326
VERSION CA416326.1 GI:24778977
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strauberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: James Martin
CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA sequence: 1-42, >AT-rich-flow-complexity (matched complement)
Seq primer: M13 FORWARD
POLYA=Yes.
Location/Qualifiers

FEATURES
source


```

1. .659
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="U1-H-FEO-Dbu-1-22-0-UT"
/tissue_type="Chondrosarcoma Cell line"
/dev_stage="Adult"
/lab_host="VDH10B (Life Technologies)"
/clone_lib="NCI CGAP FEO"
/note="Vector: pPVT3-Pac (pharmacia) with a modified
polylinker. Site 1: EcoR I; Site 2: Not I; NCI CGAP FEO 1
cDNA library containing the following tissue(s): a pool
of 3 chondrosarcoma cell lines (legend 2) The library was
constructed according to Bonaldi, Lennon and Soares,
Genome Research, 6:791-806, 1996. First strand cDNA,
synthesis was primed with an oligo-dT primer containing a
Not I site. Double stranded cDNA was ligated to an EcoR I
adaptor, digested with Not I, and cloned directionally
into pPVT3-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
CGCTACGCAGAC. The cell lines was provided by Dr James Martin
of University of Iowa.
TAG Tissue=human grade 2 chondrosarcoma cell line pool
TAG_Lib=UT-H-FEO
TAG_SEQ=CGCTACGCAGAC"

```

```

QY 1207 CGGGCTGTGAGCCAGTCCAGTGAATTCTGCTGTGCTGTGAGATCCTAGCCCTG 1266
    |||||
Db 316 CGGGCTGTGAGCCAGTCCAGTGAATTCTGCTGTGCTGTGAGATCCTAGCCCTG 257
    |||||
QY 1267 GTTTTGGCTCTCTTTTGTGTCAACAGCGTCGCGTTCCTGTGCAGATGAGAAAGCAG 1326
    |||||
Db 256 GTTTTGGCTCTCTTTTGTGTCAACAGCGTCGCGTTCCTGTGCAGATGAGAAAGCAG 197
    |||||
QY 1327 CACAGAGGGGAACCAAGGGGGGTGTGAGCTAACGCCCAAGAGGTAGCCGAGACTGGA 1386
    |||||
Db 196 CACAGAGGGGAACCAAGGGGGGTGTGAGCTAACGCCCAAGAGGTAGCCGAGACTGGA 137
    |||||
QY 1387 GCCTAGAGGCTGATCTTGGAGAAATGTGAGAACCAAGGCACTGAGGGGGAGCC 1446
    |||||
Db 136 GCCTAGAGGCTGATCTTGGAGAAATGTGAGAACCAAGGCACTGAGGGGGAGCC 77
    |||||
QY 1447 GGTAACGTGCTGTCTCTCAATTATGCACTTCCTTTAACTGCAAGAAATTTTAA 1506
    |||||
Db 76 GGTAACGTGCTGTCTCTCAATTATGCACTTCCTTTAACTGCAAGAAATTTTAA 17
    |||||
QY 1507 AATTAATTTTAAAT 1522
    |||||
Db 16 AATTAATTTTAAAT 1
    |||||

```

Search completed: February 6, 2005, 10:50:07
 Job time : 4455 secs

Blank (uspio)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 5, 2005, 23:23:52 ; Search time 6352 Seconds
(without alignments) 11331.065 Million cell updates/sec

Title: US-09-967-237A-1

Perfect score: 1522
Sequence: 1 acagcgcagccgcatgctcc.....ttaataataattataat 1522

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl: *
1: gb_ba: *
2: gb_hg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pat: *
7: gb_ph: *
8: gb_pl: *
9: gb_pr: *
10: gb_ro: *
11: gb_srs: *
12: gb_sy: *
13: gb_un: *
14: gb_vl: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1522	100.0	1522	6 AR074439	AR074439 Sequence
2	1522	100.0	1522	6 AR081119	AR081119 Sequence
3	1522	100.0	1522	6 AR085316	AR085316 Sequence
4	1522	100.0	1522	6 AR088064	AR088064 Sequence
5	1522	100.0	1522	6 AR104223	AR104223 Sequence
6	1522	100.0	1522	6 AR143487	AR143487 Sequence
7	1522	100.0	1522	6 AR171392	AR171392 Sequence
8	1522	100.0	1522	6 AR171563	AR171563 Sequence
9	1522	100.0	1522	6 BD243152	BD243152 MN gene a
10	1522	100.0	1522	6 AX330007	AX330007 Sequence
11	1522	100.0	1522	6 AX332607	AX332607 Sequence
12	1522	100.0	1522	6 AX333244	AX333244 Sequence
13	1522	100.0	1522	6 AX336174	AX336174 Sequence
14	1522	100.0	1522	6 HSMATDWN	HSMATDWN
15	1522	100.0	1522	6 HSMATDWN	HSMATDWN
16	1520.4	99.9	1519	9 BC014950	BC014950 Homo sapi
17	1517.4	99.9	1519	9 HAJ10588	HAJ10588
18	1399	91.9	1399	6 AR095263	AR095263 Sequence
19	1247.4	82.0	1289	6 CQ726696	CQ726696 Sequence

20	759.2	49.9	1965	10 MM245857	AJ245857 Mus muscu
21	457.8	30.1	1671	10 AB086322	AB086322 Mus muscu
22	414.4	27.2	6521	6 CO806582	CO806582 Sequence
23	414.4	27.2	6521	6 AX795690	AX795690 Sequence
24	414.4	27.2	6521	6 AX822141	AX822141 Sequence
25	414.4	27.2	6521	6 AX825781	AX825781 Sequence
26	414.4	27.2	10898	6 AR074442	AR074442 Sequence
27	414.4	27.2	10898	6 AR081122	AR081122 Sequence
28	414.4	27.2	10898	6 AR085319	AR085319 Sequence
29	414.4	27.2	10898	6 AR086067	AR086067 Sequence
30	414.4	27.2	10898	6 AR104226	AR104226 Sequence
31	414.4	27.2	10898	6 AR143490	AR143490 Sequence
32	414.4	27.2	10898	6 AR171395	AR171395 Sequence
33	414.4	27.2	10898	6 AR171566	AR171566 Sequence
34	414.4	27.2	10898	6 BD243155	BD243155 MN gene a
35	414.4	27.2	88328	9 AL357874	AL357874 Human DNA
36	414.4	27.2	187856	9 AF334829	AF334829 Homo sapi
37	413.4	27.2	415	6 AR074454	AR074454 Sequence
38	413.4	27.2	415	6 AR081134	AR081134 Sequence
39	413.4	27.2	415	6 AR085331	AR085331 Sequence
40	413.4	27.2	415	6 AR088079	AR088079 Sequence
41	413.4	27.2	415	6 AR104238	AR104238 Sequence
42	413.4	27.2	415	6 AR143502	AR143502 Sequence
43	413.4	27.2	445	6 AR171406	AR171406 Sequence
44	413.4	27.2	445	6 AR171577	AR171577 Sequence
45	413.4	27.2	445	6 BD243167	BD243167 MN gene a

ALIGNMENTS

RESULT 1
AR074439
LOCUS AR074439 1522 bp DNA linear PAT 28-AUG-2000
DEFINITION Sequence 1 from patent US 5955075.
ACCESSION AR074439
VERSION AR074439.1 GI:10001194
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
Zavada,J., Pastorekova,S. and Pastorek,J.
METHOD of inhibiting tumor growth using antibodies to MN protein
JOURNAL Patent: US 5955075-A 1 21-SEP-1999;
FEATURES
source location/Qualifiers
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAGATCAGCCGATGAGTCCCTGTCGCCACCCCTGCTCCCTCTGTGATCCCGGCC 60
1 AAGATCAGCCGATGAGTCCCTGTCGCCACCCCTGCTCCCTCTGTGATCCCGGCC 60
DB 1 AAGATCAGCCGATGAGTCCCTGTCGCCACCCCTGCTCCCTCTGTGATCCCGGCC 60
QY 61 CCTGTCAGGAGCTCACTGTCGACCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
61 CCTGTCAGGAGCTCACTGTCGACCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
DB 61 CCTGTCAGGAGCTCACTGTCGACCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
121 CCCGAGAGGTTCCCGGATGCAAGAGATTCCTTGGAGAGAGCTCTTCTGGGGA 180
121 CCCGAGAGGTTCCCGGATGCAAGAGATTCCTTGGAGAGAGCTCTTCTGGGGA 180
QY 181 GATGACCCAGTGGGAGAGAGATTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 240
181 GATGACCCAGTGGGAGAGAGATTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 240
DB 181 GATGACCCAGTGGGAGAGAGATTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 240
241 CCACCCGAGAGAGATTCCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 300
241 CCACCCGAGAGAGATTCCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 300

Db 241 CCAACCCGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300
Qy 301 GAAATTAGCTTAATCAGAGAGAGAGCTCCCTGAGATTAGAGATCTACCTGTT 360
Db 301 GAAATTAGCTTAATCAGAGAGAGAGAGCTCCCTGAGATTAGAGATCTACCTGTT 360
Qy 361 GAGGCTCCGAGAGATCTCTAAGAACCCGAGATTATAGCCACAGAGAGAGAGAT 420
Db 361 GAGGCTCCGAGAGATCTCTAAGAACCCGAGATTATAGCCACAGAGAGAGAGAT 420
Qy 421 GACAGAGATCATTTGCGCTATGAGAGAGAGAGCTCCCTGAGCTCCGAGCTGC 480
Db 421 GACAGAGATCATTTGCGCTATGAGAGAGAGAGCTCCCTGAGCTCCGAGCTGC 480
Qy 481 GCGGAGCGCTTCCAGTCCCGGCTGAGATCCCGCCAGCTGCGGCTTCTGCGGAGC 540
Db 481 GCGGAGCGCTTCCAGTCCCGGCTGAGATCCCGCCAGCTGCGGCTTCTGCGGAGC 540
Qy 541 GCGGAGCGCTTCCAGTCCCGGCTGAGATCCCGGCTGAGATCCCGGCTTCTGCGGAGC 600
Db 541 GCGGAGCGCTTCCAGTCCCGGCTGAGATCCCGGCTGAGATCCCGGCTTCTGCGGAGC 600
Qy 601 AACATGAGCAGAGTGTGCACTGACCTGCTCTGAGAGATGAGTCTGAGGCTCC 660
Db 601 AACATGAGCAGAGTGTGCACTGACCTGCTCTGAGAGATGAGTCTGAGGCTCC 660
Qy 661 GGGGCGGAGTACCGGCTCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG 720
Db 661 GGGGCGGAGTACCGGCTCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG 720
Qy 721 TCGGAGCAGACTGTGAGAGAGAGAGCTTCCGCTGAGAGATGAGTGTGAGTCACTG 780
Db 721 TCGGAGCAGACTGTGAGAGAGAGAGCTTCCGCTGAGAGATGAGTGTGAGTCACTG 780
Qy 781 ACCGCTTTTCCAGAGTTGACAGAGGCTTGGGAGGCTCCGAGAGGCTGCTGTTGAGC 840
Db 781 ACCGCTTTTCCAGAGTTGACAGAGGCTTGGGAGGCTCCGAGAGGCTGCTGTTGAGC 840
Qy 841 GCTTTCTGAG 900
Db 841 GCTTTCTGAG 900
Qy 901 GAAAGAAATGCTGAG 960
Db 901 GAAAGAAATGCTGAG 960
Qy 961 CTGCTCTGAGCTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCA 1020
Db 961 CTGCTCTGAGCTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCA 1020
Qy 1021 GCGCAGGAGTGTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGAT 1080
Db 1021 GCGCAGGAGTGTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGAT 1080
Qy 1081 CACACCTCTCTGAGACCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
Db 1081 CACACCTCTCTGAGACCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
Qy 1141 GCGAGCGAGAGCTTTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
Db 1141 GCGAGCGAGAGCTTTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
Qy 1201 AGTCTCTGAG 1260
Db 1201 AGTCTCTGAG 1260
Qy 1261 GCGCTGTTTGGCTCTCTTTTCTGCTGACACAGCTGAGCTTCTTCTGAGAGAGAG 1320
Db 1261 GCGCTGTTTGGCTCTCTTTTCTGCTGACACAGCTGAGCTTCTTCTGAGAGAGAG 1320
Qy 1321 AGGAG 1380
Db 1321 AGGAG 1380
Qy 1381 AGGAG 1440
Db 1381 AGGAG 1440
Qy 1441 GAGGCGGATGAG 1500
Db 1441 GAGGCGGATGAG 1500
Qy 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1522
Db 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1522

Qy 1381 ACTGAGCTTGAAGAGCTGAGATCTTGAAGATGTGAAGAGAGAGAGAGAGAGAG 1440
Db 1381 ACTGAGCTTGAAGAGCTGAGATCTTGAAGATGTGAAGAGAGAGAGAGAGAGAG 1440
Qy 1441 GAGGCGGATGAG 1500
Db 1441 GAGGCGGATGAG 1500
Qy 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1522
Db 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1522

RESULT 2
AR081119
LOCUS AR081119 1522 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 1 from patent US 5972353.
ACCESSION AR081119
VERSION AR081119.1 GI:10007847
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zayada,J., Pastorekova,S. and Pastorek,J.
TITLE MN proteins, polypeptides, fusion proteins and fusion polypeptides
JOURNAL Patent: US 5972353-A 1 26-OCT-1999;
FEATURES
source 1..1522
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAGTCAAGCGGAG 60
Db 1 AAGTCAAGCGGAG 60
Qy 61 CCGTCTCAG 120
Db 61 CCGTCTCAG 120
Qy 121 CCCAG 180
Db 121 CCCAG 180
Qy 181 GATGACCACTGAG 240
Db 181 GATGACCACTGAG 240
Qy 241 CCAAG 300
Db 241 CCAAG 300
Qy 301 GAAATTAGCTTAATCAG 360
Db 301 GAAATTAGCTTAATCAG 360
Qy 361 GAGGCTCTGAG 420
Db 361 GAGGCTCTGAG 420
Qy 421 GACAGAGATCATTTGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db 421 GACAGAGATCATTTGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Qy 481 GCGGAGCGCTTCCAGTCCCGGCTGAGATCCCGCCAGCTGCGGCTTCTGCGGAGC 540
Db 481 GCGGAGCGCTTCCAGTCCCGGCTGAGATCCCGCCAGCTGCGGCTTCTGCGGAGC 540

QY	CTGGGCCCCCTGGAACTCTGAGGCTCTCAGGCTCCGCGCGCTCCAGAACTGCGCTGCG	541
Dp	CTGGGCCCCCTGGAACTCTGAGGCTCTCAGGCTCCGCGCGCTCCAGAACTGCGCTGCG	541
Qy	AAACAATGGCCACAGTGTGCACATGCACTGACCTGCGCTCCTGAGGCTAAGATGGCTCTGAGTCCC	601
Dp	AAACAATGGCCACAGTGTGCACATGCACTGACCTGCGCTCCTGAGGCTAAGATGGCTCTGAGTCCC	601
Qy	GGGGGGGAGTACCGGGCTCTGCACTGTGCATCTGCACTGGGGGGGCTGCAGGTCGTCCGGGC	661
Dp	GGGGGGGAGTACCGGGCTCTGCACTGTGCATCTGCACTGGGGGGGCTGCAGGTCGTCCGGGC	661
Qy	TCGGAGCACATGTGAAGGCGCACCGTGTCCCTGCGAGATCCAGTGTTCACCTGACG	721
Dp	TCGGAGCACATGTGAAGGCGCACCGTGTCCCTGCGAGATCCAGTGTTCACCTGACG	721
Qy	ACCGCTTTTGCACAGTGTGACAGAGGCTCTGAGGGCGCCCGGAGGCTTGGCGTGTGGCC	781
Dp	ACCGCTTTTGCACAGTGTGACAGAGGCTCTGAGGGCGCCCGGAGGCTTGGCGTGTGGCC	781
Qy	GCTTTTCTGGAGAGAGGGCCCGGAAAGAAACAGTGTCTATGACAGTGTCTGTCTG	841
Dp	GCTTTTCTGGAGAGAGGGCCCGGAAAGAAACAGTGTCTATGACAGTGTCTGTCTG	841
Qy	GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGGTCACGAGACTGGAATATCTGCACTC	901
Dp	GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGGTCACGAGACTGGAATATCTGCACTC	901
Qy	CTGCCCTCTGACCTTCAGCGCTACTTCCAAATATGAGGGGTCTGTACTACCGCGCTGT	961
Dp	CTGCCCTCTGACCTTCAGCGCTACTTCCAAATATGAGGGGTCTGTACTACCGCGCTGT	961
Qy	GCCCAAGGTGTCACTGTGACCTGTGTGTTAAACAGACAGTGAATGTGAAGTCTTAAAGCATGTC	1021
Dp	GCCCAAGGTGTCACTGTGACCTGTGTGTTAAACAGACAGTGAATGTGAAGTCTTAAAGCATGTC	1021
Qy	CACACCCCTCTCTGACACCCCTGTGAGGAGCTGTGTGACTCTCGGCTACAGCTGAATCTTCGGA	1081
Dp	CACACCCCTCTCTGACACCCCTGTGAGGAGCTGTGTGACTCTCGGCTACAGCTGAATCTTCGGA	1081
Qy	GCGAGCGAGCTTTGAAATGGCGAGTGAATTGAGGCTCTCTTCCCTGCTGAGTGGACAGC	1141
Dp	GCGAGCGAGCTTTGAAATGGCGAGTGAATTGAGGCTCTCTTCCCTGCTGAGTGGACAGC	1141
Qy	AGTCTCGGGGCTGCGAGCCAGTCCAGCTGAATTCCTGCGCTGCGCTGCGTGAACATCTTA	1201
Dp	AGTCTCGGGGCTGCGAGCCAGTCCAGCTGAATTCCTGCGCTGCGCTGCGTGAACATCTTA	1201
Qy	GCCCTGAGTTTTGGGCTCTCTTTTGTCTGTCAACAGCGTCCGCTTCTTGTGTCAATGAGA	1261
Dp	GCCCTGAGTTTTGGGCTCTCTTTTGTCTGTCAACAGCGTCCGCTTCTTGTGTCAATGAGA	1261
Qy	AGGCAAGCACAGAGGGGAAACCAAGGGGGGTGTGAGTACCGGCCCAAGCAGAGTACCCGAG	1321
Dp	AGGCAAGCACAGAGGGGAAACCAAGGGGGGTGTGAGTACCGGCCCAAGCAGAGTACCCGAG	1321
Qy	ACTGGAAGCTTGAAGGCTGATCTTGAAGAAATGTGAAGACCAAGCAGAGGCAATCTGAGGG	1381
Dp	ACTGGAAGCTTGAAGGCTGATCTTGAAGAAATGTGAAGACCAAGCAGAGGCAATCTGAGGG	1381
Qy	GGAGCGGCTAACCTGTCTGTCTGCTCATTAATGCACTTCCCTTTTAACTGCGCAAGAAATT	1441
Dp	GGAGCGGCTAACCTGTCTGTCTGCTCATTAATGCACTTCCCTTTTAACTGCGCAAGAAATT	1441
Qy	TTTTTAAATTAATATTTATTAAT 1522	1501
Dp	TTTTTAAATTAATATTTATTAAT 1522	1501

ORIGIN	
DEFINITION	Sequence 1 from patent US 5981711.
ACCESSION	AR085316
VERSION	AR085316.1
KEYWORDS	GI:10012085
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 1522)
TITLE	Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL	MN-specific antibodies and hybridomas
FEATURES	Patent: US 5981711-A 1 09-NOV-1999; Location/Qualifiers 1..1522
source	/organism="unknown" /mol_type="unassigned DNA"

Query Match		100.0%;	Score 1522;	DB 6;	Length 1522;
Best Local Similarity		100.0%;	Pred. No. 1,66-310;		
Matches 1522;	Conservative	0;	Mismatches	0;	Indels
					Gaps 0
QY	1	ACAGTCACGCGCATAGCTCTCCCTGTGTGCCCAAGCCCTTGAGCTCTCTGTGATGCCGCGC	60		
DB	1	ACAAGTCACCGCGCATAGCTCTCCCTGTGTGCCCAAGCCCTTGAGCTCTCTGTGATGCCGCGC	60		
QY	61	CTGTGTCAGAGCTTCATCTGTGCAACTGTGTGTCTACATGTGCTCTTCTGATGCTGTCCAT	120		
DB	61	CTGTGTCAGAGCTTCATCTGTGCAACTGTGTGTCTACATGTGCTCTTCTGATGCTGTCCAT	120		
QY	121	CCCCGAGAGTGTCCCGGATGACGAGAGATTCCCGCTTGGAGAGAGAGCTCTTCTGGGAA	180		
DB	121	CCCCGAGAGTGTCCCGGATGACGAGAGATTCCCGCTTGGAGAGAGAGCTCTTCTGGGAA	180		
QY	181	GATGACCCACTGTGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAAGAGAGAGAT	240		
DB	181	GATGACCCACTGTGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAAGAGAGAGAT	240		
QY	241	CCACCCGAGAGAGAGATCTACCTGTGAGAGAGATCTAACCTGAGAGAGAGATCTACCT	300		
DB	241	CCACCCGAGAGAGAGATCTACCTGTGAGAGAGATCTAACCTGAGAGAGAGATCTACCT	300		
QY	301	GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAAGTTAGAGATCTACTGATT	360		
DB	301	GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAAGTTAGAGATCTACTGATT	360		
QY	361	GAGGCTCTTGAGATCTCAAGAACCCCAATTAATGCCCAAGGGAAGAGAGAGAT	420		
DB	361	GAGGCTCTTGAGATCTCAAGAACCCCAATTAATGCCCAAGGGAAGAGAGAGAT	420		
QY	421	GACCGAATCAATTTGGCGCTATGTGAGAGGACCCGCGCTGTGGCCCGGAGTCCCAAGCTGC	480		
DB	421	GACCGAATCAATTTGGCGCTATGTGAGAGGACCCGCGCTGTGGCCCGGAGTCCCAAGCTGC	480		
QY	481	GCGGCGCGCTTCAAGTCCCGGAGATATCCGCCCCCAAGCTGCAGCTTCTGCGCGGC	540		
DB	481	GCGGCGCGCTTCAAGTCCCGGAGATATCCGCCCCCAAGCTGCAGCTTCTGCGCGGC	540		
QY	541	CTGTGCGCCCTTGAGAACTCTGTGGGCTTCCAGCTCCCGCGCTCCAGAACTGTGGCGC	600		
DB	541	CTGTGCGCCCTTGAGAACTCTGTGGGCTTCCAGCTCCCGCGCTCCAGAACTGTGGCGC	600		
QY	601	AACATGAGCAAGTGTCAACTGACCTTGCGCTCTGTGGGCTTAGAGATGAGCTGTGGTCCG	660		
DB	601	AACATGAGCAAGTGTCAACTGACCTTGCGCTCTGTGGGCTTAGAGATGAGCTGTGGTCCG	660		
QY	661	GGGCGGAGATCCGGGCTCTGACGTGATCTGCACTGGGAGGCTGCAAGTGTCTCGGGC	720		
DB	661	GGGCGGAGATCCGGGCTCTGACGTGATCTGCACTGGGAGGCTGCAAGTGTCTCGGGC	720		
QY	721	TGGAGGCAACTGTGTGAGAGGCAACGTTTCTGTGCGGAGATCAAGTGTTCACCTCAAGC	780		
DB	721	TGGAGGCAACTGTGTGAGAGGCAACGTTTCTGTGCGGAGATCAAGTGTTCACCTCAAGC	780		

QY 781 ACCGCTTTGCCAGAGTTGACAGAGCTTTGGGGCCGCCGGAGAGCTTGGCCCTTTGGCC 840
DB 781 ACCGCTTTGCCAGAGTTGACAGAGCTTTGGGGCCGCCGGAGAGCTTGGCCCTTTGGCC 840
QY 841 GCGCTTTGAGAGAGGGCCCGAGAGAAAAGTGGCTTATGAGAGAGTGTGTCTGGCTTG 900
DB 841 GCGCTTTGAGAGAGGGCCCGAGAGAAAAGTGGCTTATGAGAGAGTGTGTGTCTGGCTTG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGCTGAGACATATCTGACATC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGCTGAGACATATCTGACATC 960
QY 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
DB 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
QY 1021 GCCCAGGGTGTGATCTGAGACTGTGTAAACAGACAGATGATCTGAGTCTAAGAGCTC 1080
DB 1021 GCCCAGGGTGTGATCTGAGACTGTGTAAACAGACAGATGATCTGAGTCTAAGAGCTC 1080
QY 1081 CACACCTCTCTGACACCTCTGTGGGAGCCTGTGACTCTGAGCTAAGCTGAATCTCCGA 1140
DB 1081 CACACCTCTCTGACACCTCTGTGGGAGCCTGTGACTCTGAGCTAAGCTGAATCTCCGA 1140
QY 1141 GCGAGCGAGCTTTGAAATGGCGGAGTGTGATGAGGCTCTTCCCTGCTGAGATGAGACAC 1200
DB 1141 GCGAGCGAGCTTTGAAATGGCGGAGTGTGATGAGGCTCTTCCCTGCTGAGATGAGACAC 1200
QY 1201 AGTCTCTGGGGCTGTGAGGCACTGACAGTGAATCTCTGCTGAGTGTGAGATCTCTA 1260
DB 1201 AGTCTCTGGGGCTGTGAGGCACTGACAGTGAATCTCTGCTGAGTGTGAGATCTCTA 1260
QY 1261 GCGCTGTGTTTTGGCCCTCTTTTGTGCTGTACACAGCTGCGCTCTCTTGTGAGATGAGA 1320
DB 1261 GCGCTGTGTTTTGGCCCTCTTTTGTGCTGTACACAGCTGCGCTCTCTTGTGAGATGAGA 1320
QY 1321 AGGCGACACAGAGGGGAAACCAAGGGGTGTGAGTACCGCCAGAGAGGTTAACCGAG 1380
DB 1321 AGGCGACACAGAGGGGAAACCAAGGGGTGTGAGTACCGCCAGAGAGGTTAACCGAG 1380
QY 1381 ACTGAGGCTTGAAGGCTGTGATCTTGGAGAAATGAGAAACAGAGAGGACTGTGAGGG 1440
DB 1381 ACTGAGGCTTGAAGGCTGTGATCTTGGAGAAATGAGAAACAGAGAGGACTGTGAGGG 1440
QY 1441 GAGGCGGTGACTGTCTGTCTGTCTGATTAATGCACTTCTTTTAACTGCCAAGAAAT 1500
DB 1441 GAGGCGGTGACTGTCTGTCTGTCTGATTAATGCACTTCTTTTAACTGCCAAGAAAT 1500
QY 1501 TTTTAAATTAATATTTTAAAT 1522
DB 1501 TTTTAAATTAATATTTTAAAT 1522

RESULT 4
AR088064 1522 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 1 from patent US 5989838.
ACCESSION AR088064
VERSION AR088064.1 GI:10014827
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Immunological method of detecting MN proteins and MN polypeptides
JOURNAL Patent: US 5989838-A 1 23-NOV-1993;
FEATURES
Location/Qualifiers
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGCAGCCGAGATGCTCCCTGTGGCCAGCCCTTGGCTCCCTGTGTGATCCCGGCC 60
DB 1 ACAGCAGCCGAGATGCTCCCTGTGGCCAGCCCTTGGCTCCCTGTGTGATCCCGGCC 60
QY 61 CTGTCTCAGAGCTTCACTGTGCACTGTGCTGTCTGCTGTCTGTATGCTGTCCAT 120
DB 61 CTGTCTCAGAGCTTCACTGTGCACTGTGCTGTCTGCTGTCTGTATGCTGTCCAT 120
QY 121 CCCAGAGGTTGCCCGGATGAGAGATTCCTCTTGGAGAGGCTCTTTTGGGAA 180
DB 121 CCCAGAGGTTGCCCGGATGAGAGATTCCTCTTGGAGAGGCTCTTTTGGGAA 180
QY 181 GATGACCCAGTGGGCGAGAGATCTGTCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 181 GATGACCCAGTGGGCGAGAGATCTGTCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300
DB 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTTCCCTGAAGTTAGAGATCTACTGT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTTCCCTGAAGTTAGAGATCTACTGT 360
QY 361 GAGGCTCTGAGAGATCTCAAGAAACCCAGAAATATGCCCAGAGGACAAAGAGGGGAT 420
DB 361 GAGGCTCTGAGAGATCTCAAGAAACCCAGAAATATGCCCAGAGGACAAAGAGGGGAT 420
QY 421 GACAGAGATCTAGCGGTATGAGAGGCGACCCGCTGTGGCCCGGCTGCCAGCTTC 480
DB 421 GACAGAGATCTAGCGGTATGAGAGGCGACCCGCTGTGGCCCGGCTGCCAGCTTC 480
QY 481 GCGGCGGCTTCCAGTCCCGGCTGATCCCGCCAGCTGCGCCCTTCTGCCCGGCC 540
DB 481 GCGGCGGCTTCCAGTCCCGGCTGATCCCGCCAGCTGCGCCCTTCTGCCCGGCC 540
QY 541 CTGCGCCCTTGAATCTCTGAGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGGGC 600
DB 541 CTGCGCCCTTGAATCTCTGAGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGGGC 600
QY 601 AACAAATGCAAGTGTGCACTGACCTGTCTCTGAGGCTTGAAGATGCTGTGGTCC 660
DB 601 AACAAATGCAAGTGTGCACTGACCTGTCTCTGAGGCTTGAAGATGCTGTGGTCC 660
QY 661 GGGGCGAGTACCGGGCTCTGACAGTGTGACCTGAGGAGGCTGACAGTCTCCGGGC 720
DB 661 GGGGCGAGTACCGGGCTCTGACAGTGTGACCTGAGGAGGCTGACAGTCTCCGGGC 720
QY 721 TCGAGCACACTGTGAGAGGCAACCGTTCCTGCGAGATCACTGTGTCACTCAGC 780
DB 721 TCGAGCACACTGTGAGAGGCAACCGTTCCTGCGAGATCACTGTGTCACTCAGC 780
QY 781 ACCGCTTTGCCAAGTGTGACAGAGCCTTGGGGGCGCCGAGAGGCTGTGGTGGCC 840
DB 781 ACCGCTTTGCCAAGTGTGACAGAGCCTTGGGGGCGCCGAGAGGCTGTGGTGGCC 840
QY 841 GCGTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGCTGTCTGCTGG 900
DB 841 GCGTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGAGCTGTCTGCTGG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGACTGACATATCTGACATC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGACTGACATATCTGACATC 960
QY 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
DB 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTCTGACTACACCCGCTGT 1020
QY 1021 GCCCAGGGTGTGATCTGAGACTGTGTAAACAGACAGTGAATGCTGAGTCTAAGAGCTC 1080

Db 1021 GCCAGGGGTGATCTGAGCTGTTTAAACAGACGATGCTGAGTCTAAAGCAGCTC 1080
Qy 1081 CACACCTCTTGAACAACCTGTGGGGAACCTGTGATCTCTGCTAAGCTGAATCTTCCGA 1140
Db 1081 CACACCTCTTGAACAACCTGTGGGGAACCTGTGATCTCTGCTAAGCTGAATCTTCCGA 1140
Qy 1141 GCGAGCAGCCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
Db 1141 GCGAGCAGCCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
Qy 1201 AGTCTCGGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGATCTTA 1260
Db 1201 AGTCTCGGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGATCTTA 1260
Qy 1261 GGCCTGGTTTTGGCTCTCTTTTGTGTCAACAGGTGGCTTCTTGTGAGATGAGA 1320
Db 1261 GGCCTGGTTTTGGCTCTCTTTTGTGTCAACAGGTGGCTTCTTGTGAGATGAGA 1320
Qy 1321 AGGAGCAGACAGAGGGGAAACAAAGGGGTGTGAGCTACCGCCAGCAGAGTGGCCGAG 1380
Db 1321 AGGAGCAGACAGAGGGGAAACAAAGGGGTGTGAGCTACCGCCAGCAGAGTGGCCGAG 1380
Qy 1381 ACTGAGCCTAGAGGCTGATCTTGGAGATGTGAGAGCCAGCCAGAGGATCTGAGG 1440
Db 1381 ACTGAGCCTAGAGGCTGATCTTGGAGATGTGAGAGCCAGCCAGAGGATCTGAGG 1440
Qy 1441 GGAAGCGGTATCTGTCTCTGCTCATTTATGCCCTTCTTTTACTGCCAAGAAAT 1500
Db 1441 GGAAGCGGTATCTGTCTCTGCTCATTTATGCCCTTCTTTTACTGCCAAGAAAT 1500
Qy 1501 TTTTAAATTAATTTATTAAT 1522
Db 1501 TTTTAAATTAATTTATTAAT 1522

RESULT 5
ARI04223 1522 bp DNA linear PART 14-FEB-2001
LOCUS Sequence 1 from patent US 6093548.
DEFINITION ARI04223
ACCESSION ARI04223
VERSION ARI04223.1 GI:12816931
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Detection and quantitation of MN-specific antibodies
JOURNAL Patent: US 6093548-A 1 25-JUL-2000;
FEATURES
Location/Qualifiers
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTAGCGGATGCTCCCTGTGCGCCAGCCCGCTGCTCTGTGATCCCGGCC 60
Db 1 ACAGTAGCGGATGCTCCCTGTGCGCCAGCCCGCTGCTCTGTGATCCCGGCC 60
Qy 61 CCTGTCAAGGCTCACTGTGCAATGCTGTGCTCACTGTGCTTGTGATGCTGTCAAT 120
Db 61 CCTGTCAAGGCTCACTGTGCAATGCTGTGCTCACTGTGCTTGTGATGCTGTCAAT 120
Qy 121 CCCAGAGGTTGCCCGGATGCGAGAGATTTCCCTTGGAGAGAGGCTTTTGGGGA 180
Db 121 CCCAGAGGTTGCCCGGATGCGAGAGATTTCCCTTGGAGAGAGGCTTTTGGGGA 180
Qy 181 GATGACCACTGGGCGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240

Db 181 GATGACCACTGGGCGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Qy 241 CCACCCGAGAGAGATCTTACTGTGAGAGAGATCTTACTGTGAGAGAGATCTTACT 300
Db 241 CCACCCGAGAGAGATCTTACTGTGAGAGAGATCTTACTGTGAGAGAGATCTTACT 300
Qy 301 GAAGTTAAGCTTAATTCAGAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTGT 360
Db 301 GAAGTTAAGCTTAATTCAGAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTTACTGT 360
Qy 361 GAGGCTCTGTGAGATCTTCAAGAACCCAGATTAATGCCACAGAGAGAGAGAGAT 420
Db 361 GAGGCTCTGTGAGATCTTCAAGAACCCAGATTAATGCCACAGAGAGAGAGAGAT 420
Qy 421 GACAGAGATCTTGGCGCTATGAGAGAGAGAGAGGCTGCGCCCGGGGTGCCAGCTGC 480
Db 421 GACAGAGATCTTGGCGCTATGAGAGAGAGAGAGGCTGCGCCCGGGGTGCCAGCTGC 480
Qy 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCGCGGCC 540
Db 481 GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCGCGGCC 540
Qy 541 CTGCGCCCTTGAACTCTCTGAGCTTCCAGCTTCCGCGCTCCAGAACTGCGGCTGCGC 600
Db 541 CTGCGCCCTTGAACTCTCTGAGCTTCCAGCTTCCGCGCTCCAGAACTGCGGCTGCGC 600
Qy 601 AACATGAGCAGAGTGTGATGAACTGAACTCCCTGCTGCTGAGATGAGTCTGAGTCCC 660
Db 601 AACATGAGCAGAGTGTGATGAACTGAACTCCCTGCTGCTGAGATGAGTCTGAGTCCC 660
Qy 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGAGAGTGTCCGAGC 720
Db 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGAGGAGGCTGAGAGTGTCCGAGC 720
Qy 721 TCGAGCAGACATGTGAGAGAGCCGCTTCCCTGCGAGATCCAGCTGATCTGAGCT 780
Db 721 TCGAGCAGACATGTGAGAGAGCCGCTTCCCTGCGAGATCCAGCTGATCTGAGCT 780
Qy 781 ACCGCTTTTCCAGAGTGTGAGAGGCTTGGGGCGCCCGGAGAGGCTGAGCTGTGGCC 840
Db 781 ACCGCTTTTCCAGAGTGTGAGAGGCTTGGGGCGCCCGGAGAGGCTGAGCTGTGGCC 840
Qy 841 GCGTTCTGAGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGAGATGTGCTGCTG 900
Db 841 GCGTTCTGAGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGAGATGTGCTGCTG 900
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAGTCCAGAGCTGAGCATCTGCACTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAGTCCAGAGCTGAGCATCTGCACTC 960
Qy 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTGTGACTACCGGCTGT 1020
Db 961 CTGCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTGTGACTACCGGCTGT 1020
Qy 1021 GCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTGAATGCTGAGTGAAGCAGCTC 1080
Db 1021 GCCAGGGGTGATCTGAGCTGTGTTTAAACAGACAGTGAATGCTGAGTGAAGCAGCTC 1080
Qy 1081 CACACCTCTTGAACAACCTGTGGGGAACCTGTGATCTCTGCTAAGCTGAATCTTCCGA 1140
Db 1081 CACACCTCTTGAACAACCTGTGGGGAACCTGTGATCTCTGCTAAGCTGAATCTTCCGA 1140
Qy 1141 GCGAGCAGCCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
Db 1141 GCGAGCAGCCTTTGATGAGGCGAGTGAATGAGGCTCTCTCTGCTGAGTGAACAGC 1200
Qy 1201 AGTCTCGGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGATCTTA 1260
Db 1201 AGTCTCGGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGATCTTA 1260
Qy 1261 GGCCTGGTTTTGGCTCTCTTTTGTGTCAACAGGTGGCTTCTTGTGAGATGAGA 1320

Db 1261 GCCCTGTTTGGCCCTCTTTTGTGTCACACAGGCTGCGTTCTTGTGAGATGAGA 1320
Qy 1321 AGGACGACAGAAAGGGAAACAAAGGGGGTGTGACTACCGCCAGACAGATGACCGAG 1380
Db 1321 AGGACGACAGAAAGGGAAACAAAGGGGGTGTGACTACCGCCAGACAGATGACCGAG 1380
Qy 1381 ACTGAGCCTTAAGAGGCTGTATCTTTGAGATGTGAGAACCGACCGACAGATCTGAGGG 1440
Db 1381 ACTGAGCCTTAAGAGGCTGTATCTTTGAGATGTGAGAACCGACCGACAGATCTGAGGG 1440
Qy 1441 GGAGCCGTAACCTGCTCTCTCTCATATATGCACTTCTTTAACTGCAAGAAAT 1500
Db 1441 GGAGCCGTAACCTGCTCTCTCTCATATATGCACTTCTTTAACTGCAAGAAAT 1500
Qy 1501 TTTTAAATTAATATTATTAAT 1522
Db 1501 TTTTAAATTAATATTATTAAT 1522
RESULT 6
ARI43487
LOCUS ARI43487 1522 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 1 from patent US 6204370.
ACCESSION ARI43487
VERSION ARI43487.1 GI:15104773
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
Unclassified.
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE MN gene and protein
JOURNAL Patent: US 6204370-A 1 20-MAR-2001;
FEATURES
source 1..1522
Location/Qualifiers
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTACGCGGATGCTCCCTCTGTGCCCCAGCCCTGCTCCCTCTGTGATCCCGGCC 60
Db 1 ACAGTACGCGGATGCTCCCTCTGTGCCCCAGCCCTGCTCCCTCTGTGATCCCGGCC 60
Qy 61 CCGTCCAGGCTCACTGTCGCAACTGTGCTGTCACTGCTGCTTCTGATGCTGTCAT 120
Db 61 CCGTCCAGGCTCACTGTCGCAACTGTGCTGTCACTGCTGCTTCTGATGCTGTCAT 120
Qy 121 CCCCAAGGTTGCCCGGATGACAGAGATTCCTCTTGGAGAGAGCTCTTCTGGAGAA 180
Db 121 CCCCAAGGTTGCCCGGATGACAGAGATTCCTCTTGGAGAGAGCTCTTCTGGAGAA 180
Qy 181 GATGACCCACTGGGCGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Db 181 GATGACCCACTGGGCGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Qy 241 CCACCCGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTAACT 300
Db 241 CCACCCGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTAACT 300
Qy 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
Db 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
Qy 361 GAGGCTCTGAGATCTCTAAGAACCCAGATATATGCCACAGGAGCAAGAGAGAGAT 420
Db 361 GAGGCTCTGAGATCTCTAAGAACCCAGATATATGCCACAGGAGCAAGAGAGAGAT 420
Qy 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCTGAGCCCGGGTGTCCCAAGCTTC 480
Db 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCTGAGCCCGGGTGTCCCAAGCTTC 480

Db 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCTGAGCCCGGGTGTCCCAAGCTTC 480
Qy 481 GGGGCGGCTTCACTCCCGGTGATATCCGCCCTCAGCTCGCCCTTCTGCCCCGAGC 540
Db 481 GGGGCGGCTTCACTCCCGGTGATATCCGCCCTCAGCTCGCCCTTCTGCCCCGAGC 540
Qy 541 CTGGCCCCCTGGAATCTCTGGGCTTCCAGAGCTCCCGGCTCCAGAACTGGGCTGGGC 600
Db 541 CTGGCCCCCTGGAATCTCTGGGCTTCCAGAGCTCCCGGCTCCAGAACTGGGCTGGGC 600
Qy 601 AACATGACCAAGTGTCAACTGACCTGCTCTGAGCTAGAGATGCTTGGGTCC 660
Db 601 AACATGACCAAGTGTCAACTGACCTGCTCTGAGCTAGAGATGCTTGGGTCC 660
Qy 661 GGGCGGAGTACCGGGCTCTGAGCTGATCTGCACTGGGGGGCTGCAAGTGTCCGGGC 720
Db 661 GGGCGGAGTACCGGGCTCTGAGCTGATCTGCACTGGGGGGCTGCAAGTGTCCGGGC 720
Qy 721 TCGAGCACTGTGGAAGGACACCGTTCCCTGCGAGATTCACGTGGTTCACTCAAGC 780
Db 721 TCGAGCACTGTGGAAGGACACCGTTCCCTGCGAGATTCACGTGGTTCACTCAAGC 780
Qy 781 ACCGCTTGGCCAGATGACAGAGCTTGGGGGCGCCCGGAGAGCTGAGCTGTGGGC 840
Db 781 ACCGCTTGGCCAGATGACAGAGCTTGGGGGCGCCCGGAGAGCTGAGCTGTGGGC 840
Qy 841 GCTTTCTGAGAGAGAGGCGCCGAGAGAAACAGTGGCTTATGACAGTGTGTGCTTGG 900
Db 841 GCTTTCTGAGAGAGAGGCGCCGAGAGAAACAGTGGCTTATGACAGTGTGTGCTTGG 900
Qy 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTAGGCTCCAGAGCTGAGATATCTGACATC 960
Db 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTAGGCTCCAGAGCTGAGATATCTGACATC 960
Qy 961 CTGGCTCTGACTTCAAGCGCTACTTCCAAATATGAGGGGCTCTGACTTCAACCGCTGT 1020
Db 961 CTGGCTCTGACTTCAAGCGCTACTTCCAAATATGAGGGGCTCTGACTTCAACCGCTGT 1020
Qy 1021 GCCCAGGCTGATCTGAGCTGTGTTTAAACAGACAGTGTGATGCTTAAAGAGCTC 1080
Db 1021 GCCCAGGCTGATCTGAGCTGTGTTTAAACAGACAGTGTGATGCTTAAAGAGAGCTC 1080
Qy 1081 CACACCTCTCTGACACCTGTGGGAGCTGTGATCTTCCGCTTACAGTGAATCTTCGA 1140
Db 1081 CACACCTCTCTGACACCTGTGGGAGCTGTGATCTTCCGCTTACAGTGAATCTTCGA 1140
Qy 1141 GCGAGCAGCCTTTGAATGGGCGAGTGAATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
Db 1141 GCGAGCAGCCTTTGAATGGGCGAGTGAATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
Qy 1201 AGTCTCGGGCTGCTGAGACAGTCCAGCTGAATCTCTCTGCGCTGCTGAGTGAATCTCA 1260
Db 1201 AGTCTCGGGCTGCTGAGACAGTCCAGCTGAATCTCTCTGCGCTGCTGAGTGAATCTCA 1260
Qy 1261 GCCCGTTTGGCTCTCTTTTGGCTGTCACAGAGCTGAGGCTCTTGTGAGATGAGA 1320
Db 1261 GCCCGTTTGGCTCTCTTTTGGCTGTCACAGAGCTGAGGCTCTTGTGAGATGAGA 1320
Qy 1321 AGGACGACAGAAAGGGAAACAAAGGGGGTGTGACTACCGCCAGACAGATGACCGAG 1380
Db 1321 AGGACGACAGAAAGGGAAACAAAGGGGGTGTGACTACCGCCAGACAGATGACCGAG 1380
Qy 1381 ACTGAGCCTTAAGAGGCTGTATCTTTGAGATGTGAGAACCGACCGACAGATCTGAGGG 1440
Db 1381 ACTGAGCCTTAAGAGGCTGTATCTTTGAGATGTGAGAACCGACCGACAGATCTGAGGG 1440
Qy 1441 GGAGCCGTAACCTGCTCTCTCTCATATATGCACTTCTTTAACTGCAAGAAAT 1500
Db 1441 GGAGCCGTAACCTGCTCTCTCTCATATATGCACTTCTTTAACTGCAAGAAAT 1500
Qy 1501 TTTTAAATTAATATTATTAAT 1522
Db 1501 TTTTAAATTAATATTATTAAT 1522

RESULT 7
AR171392 1522 bp DNA linear PAT 17-DEC-2001
LOCUS AR171392 Sequence 1 from patent US 6297041.
DEFINITION AR171392
ACCESSION AR171392
VERSION AR171392.1 GI:17910342
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada, J., Pastorekova, S. and Pastorek, J.
TITLE MN gene and protein
JOURNAL Patent: US 6297041-A 1 02-OCT-2001;
FEATURES
source Location/Qualifiers
1..1522
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 100.0%; Score 1522; DB 6; Length 1522;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAATGAGCCGATGAGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCGAGCC 60
DB 1 AAGTCAGCCGATGAGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCGAGCC 60
QY 61 CCTGCTCAGGCGCTACCTGTGCACTGCTGTCACTGCTGTTCTGATGCTGCTCAT 120
DB 61 CCTGCTCAGGCGCTACCTGTGCACTGCTGTGCACTGCTGTTCTGATGCTGCTCAT 120
QY 121 CCCAGAGGTTCCCGGATGAGAGATTCCTCCCTTGGAGAGGCTCTTCTGGAGAA 180
DB 121 CCCAGAGGTTCCCGGATGAGAGATTCCTCCCTTGGAGAGGCTCTTCTGGAGAA 180
QY 181 GATGACCCACTGGGCGAGAGATTCGCCAGTGAAGAGATTACCCAGAGAGAGAT 240
DB 181 GATGACCCACTGGGCGAGAGATTCGCCAGTGAAGAGATTACCCAGAGAGAGAT 240
QY 241 CCAACCCGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 241 CCAACCCGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACTTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACTTT 360
QY 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCCAGAGGAAAGAGGAGAT 420
DB 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCCAGAGGAAAGAGGAGAT 420
QY 421 GACCAAGTCATTTGGGCTATGAGAGGCGACCCGCTGAGCCCGGGTGTCCCAAGCTGC 480
DB 421 GACCAAGTCATTTGGGCTATGAGAGGCGACCCGCTGAGCCCGGGTGTCCCAAGCTGC 480
QY 481 GGGGCGCGCTTCAAGTCCCGGATATCCGCCCCAGACTGCGGCTTCTGCGCGGCC 540
DB 481 GGGGCGCGCTTCAAGTCCCGGATATCCGCCCCAGACTGCGGCTTCTGCGCGGCC 540
QY 541 CTGGCGCCCTTGAATCTCTGGGCTTTCAGCTTCGCGGCTCCAGAACTGCGGCTGCGC 600
DB 541 CTGGCGCCCTTGAATCTCTGGGCTTTCAGCTTCGCGGCTCCAGAACTGCGGCTGCGC 600
QY 601 AACCAATGCGCAAGTGTGCACTGACCTGCTCTGCGGCTGAGATGCTCTGCGGCTCC 660
DB 601 AACCAATGCGCAAGTGTGCACTGACCTGCTCTGCGGCTGAGATGCTCTGCGGCTCC 660
QY 661 GGGCGGAGATACCGGCTCTGACGCTGCACTGGGGGCTGCAAGGTCTCTCGGGC 720
DB 661 GGGCGGAGATACCGGCTCTGACGCTGCACTGGGGGCTGCAAGGTCTCTCGGGC 720

QY 721 TCGAGCACTGTGGAAGGCCACCGTTCCCTGCGAGATCCAGTGGTTCACCTCAGC 780
DB 721 TCGAGCACTGTGGAAGGCCACCGTTCCCTGCGAGATCCAGTGGTTCACCTCAGC 780
QY 781 ACCGCTTTGCCAGAGTTGACGAGGCTTTGGGCGCCCGGAGGCGCTGGCCGTGGCC 840
DB 781 ACCGCTTTGCCAGAGTTGACGAGGCTTTGGGCGCCCGGAGGCGCTGGCCGTGGCC 840
QY 841 GCCTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCACTGCTGCTGCTTG 900
DB 841 GCCTTTCTGAGAGAGGCGCCGGAAGAAACAGTGCCTATGAGCACTGCTGCTGCTTG 900
QY 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTGATCCAGAGACTGAGATATCTGACTC 960
DB 901 GAAGAAATCGCTGAGAGAGGCTCAGAGACTGATCCAGAGACTGAGATATCTGACTC 960
QY 961 CTGCCCTCTGACTGACCGCTACTCTTCCAAATATGAGGAGGCTCTGACTACACCGCCCTGT 1020
DB 961 CTGCCCTCTGACTGACCGCTACTCTTCCAAATATGAGGAGGCTCTGACTACACCGCCCTGT 1020
QY 1021 GCCCAGGCTGTATCTGACTGTGTTTAAACAGACATGATGATGCTATGAGAGCTC 1080
DB 1021 GCCCAGGCTGTATCTGACTGTGTTTAAACAGACATGATGATGCTATGAGAGCTC 1080
QY 1081 CACACCTCTCTGACACCCCTGAGGAGCCTGAGTGACTCTGAGCTACAGCTGAATTCGGA 1140
DB 1081 CACACCTCTCTGACACCCCTGAGGAGCCTGAGTGACTCTGAGCTACAGCTGAATTCGGA 1140
QY 1141 GCGAGCAGCCCTTGAATGAGGCGAGTGAATGAGGCTCTCTCCCTGCTGAGTGAACAGC 1200
DB 1141 GCGAGCAGCCCTTGAATGAGGCGAGTGAATGAGGCTCTCTCCCTGCTGAGTGAACAGC 1200
QY 1201 AGTCTCGGCTCTGAGGCAATCCAGCTGAATTCCTGCTGAGCTGTGATCAATCTTA 1260
DB 1201 AGTCTCGGCTCTGAGGCAATCCAGCTGAATTCCTGCTGAGCTGTGATCAATCTTA 1260
QY 1261 GCCCTGTTTTGGGCTCCCTTTTGTCTGACACAGGTCGAGCTTCCTTGTGAGATGAGA 1320
DB 1261 GCCCTGTTTTGGGCTCCCTTTTGTCTGACACAGGTCGAGCTTCCTTGTGAGATGAGA 1320
QY 1321 AGGCAACAGAGAGGAGAAACAAAGGGGTGTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380
DB 1321 AGGCAACAGAGAGGAGAAACAAAGGGGTGTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380
QY 1381 ACTGAGCTTGAAGCTGAGATTTTGAAGATGTGAGAGCCAGCCAGAGGCAATCGAGG 1440
DB 1381 ACTGAGCTTGAAGCTGAGATTTTGAAGATGTGAGAGCCAGCCAGAGGCAATCGAGG 1440
QY 1441 GAGCCGCGTAATCTGCTGCTGCTATGCACTTCCCTTTAACTGCAAGAAATTT 1500
DB 1441 GAGCCGCGTAATCTGCTGCTGCTATGCACTTCCCTTTAACTGCAAGAAATTT 1500
QY 1501 TTTTAAATTAATATTATTAAT 1522
DB 1501 TTTTAAATTAATATTATTAAT 1522

RESULT 8
AR171563 1522 bp DNA linear PAT 17-DEC-2001
LOCUS AR171563 Sequence 1 from patent US 6297051.
DEFINITION AR171563
ACCESSION AR171563
VERSION AR171563.1 GI:17910513
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1522)
AUTHORS Zavada, J., Pastorekova, S. and Pastorek, J.
TITLE MN gene and protein
JOURNAL Patent: US 6297051-A 1 02-OCT-2001;
FEATURES
Location/Qualifiers


```

/mol_type="genomic DNA"
/db_xref="taxon:9606"
ORIGIN

```

Query Match	100.0%;	Score 1522;	DB 6;	length 1522;
Best Local Similarity	100.0%;	Pred. No. 1.6e-310;		
Matches 1522;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

Qy	1	CAAGTCAACCCGATATGGCTCCCTGAGCCCAAGCCCTGGCTCCCTGTGTATATCCCGGC	60
Dp	1	AAGTCAACCCGATATGGCTCCCTGAGCCCAAGCCCTGGCTCCCTGTGTATATCCCGGC	60
Qy	61	CTGTCTCAGAGGCTTCACTGTGCATCTGTGCACTGTGCTCACTGTCTTCTGATGCTTCAT	120
Dp	61	CTGTCTCAGAGGCTTCACTGTGCATCTGTGCTGTGTCACTGTCTTCTGATGCTTCAT	120
Qy	121	CCCCAGAGTTGCCCCCGATGCAAGAGATTTCCCTTGGAGAGAGCTCTTCTGGAGAA	180
Dp	121	CCCCAGAGTTGCCCCCGATGCAAGAGATTTCCCTTGGAGAGAGCTCTTCTGGAGAA	180
Qy	181	GATGACCCACTGGGGGAGAGAGATCTGGCCACTGTAAAGAGATTCACCCAAGAGAGAGAT	240
Dp	181	GATGACCCACTGGGGGAGAGAGATCTGGCCACTGTAAAGAGATTCACCCAAGAGAGAGAT	240
Qy	241	CCACCCGAGAGAGAGATCTACTCTGAGAGAGAGATTCACTGTAGAGAGAGATCTACT	300
Dp	241	CCACCCGAGAGAGAGATCTACTCTGAGAGAGAGATTCACTGTAGAGAGAGATCTACT	300
Qy	301	GAAGTTAAGCTTAATTCAGAGAGAGAGGCTTCCCTGAAGTTAGAGATTCACTACTGTT	360
Dp	301	GAAGTTAAGCTTAATTCAGAGAGAGAGGCTTCCCTGAAGTTAGAGATTCACTACTGTT	360
Qy	361	GAGGCTCTCGAGAGATCTCAAGAACCCCAAGATTATGCCCACAGGGACAAAGAGAGAT	420
Dp	361	GAGGCTCTCGAGAGATCTCAAGAACCCCAAGATTATGCCCACAGGGACAAAGAGAGAT	420
Qy	421	GACCAAGATCATTTGGCGGTATGAGAGCGACCCGCCCTTGCCCCGGGTGTCCCAAGCTTGC	480
Dp	421	GACCAAGATCATTTGGCGGTATGAGAGCGACCCGCCCTTGCCCCGGGTGTCCCAAGCTTGC	480
Qy	481	GCGGGCCGCTTCCAGTCCCCCGGTGGAATATCCGCCCCCAAGCTTGCCTTCTTGCCTCGGC	540
Dp	481	GCGGGCCGCTTCCAGTCCCCCGGTGGAATATCCGCCCCCAAGCTTGCCTTCTTGCCTCGGC	540
Qy	541	CTGGCCCCCTGGAACTCTCGGGCTTTCAGAGTCCCGCGCTCCCAAGACTGGCGCTGAGCG	600
Dp	541	CTGGCCCCCTGGAACTCTCGGGCTTTCAGAGTCCCGCGCTCCCAAGACTGGCGCTGAGCG	600
Qy	601	AACAATGGCCACAAGTGTCAACTGACCCTTCTGTGGCTTAGAGATGGCTTCTGGATCCC	660
Dp	601	AACAATGGCCACAAGTGTCAACTGACCCTTCTGTGGCTTAGAGATGGCTTCTGGATCCC	660
Qy	661	GCGGGGAGATACCGGGCTTCTGAGCTGCATCTGCACCTGGGGGGCTGCAAGTGTCTCGGGC	720
Dp	661	GCGGGGAGATACCGGGCTTCTGAGCTGCATCTGCACCTGGGGGGCTGCAAGTGTCTCGGGC	720
Qy	721	TCGGAGCACACTGTGTGAAGAGCCACCGTTTCCCTGCGAGATCAAGTGTCACTCAAGC	780
Dp	721	TCGGAGCACACTGTGTGAAGAGCCACCGTTTCCCTGCGAGATCAAGTGTCACTCAAGC	780
Qy	781	ACCGCTTTGCAAGATTGACGAGGCTTTGGGGCGCCCGGAGAGGCTTGCCGTGTTGGCC	840
Dp	781	ACCGCTTTGCAAGATTGACGAGGCTTTGGGGCGCCCGGAGAGGCTTGCCGTGTTGGCC	840
Qy	841	GCCTTTCTGAGAGAGAGGCCCCGAAABAAAACAATGTCTATAGACAATTGCTGTCTGGTTG	900
Dp	841	GCCTTTCTGAGAGAGAGGCCCCGAAABAAAACAATGTCTATAGACAATTGCTGTCTGGTTG	900
Qy	901	GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAAGTCCCAAGACTGAGACATATCTCACTC	960
Dp	901	GAAGAAATCGCTGAGAGAGGCTCAGAGACTCAAGTCCCAAGACTGAGACATATCTCACTC	960
Qy	961	CTGCCCTTGAATTGACCGGCTACTTCCAAATATGAGGGGTCTTGACTACACCGCCCTGT	1020

Db	961	CTGCGCTCTGACCTTACAGCCGCTACTTCCAAATATAGGGGCTCTGACTACACGCCCTGT	1020
Qy	1021	GCCCAAGGATGCATCTGGAATGTGTATTAACAGACAGTGAATGCTAGTGTAAACAGTCTC	1080
Db	1021	GCCCAAGGATGCATCTGGAATGTGTATTAACAGACAGTGAATGCTAGTGTAAACAGTCTC	1080
Qy	1081	CACACCTCTCTGACACCTCTGTGGGAGCTGTGTGACTCTGTGGCTACAGCTGAATTCCGA	1140
Db	1081	CACACCTCTCTGACACCTCTGTGGGAGCTGTGTGACTCTGTGGCTACAGCTGAATTCCGA	1140
Qy	1141	GCCACGACAGCCTTGAATGGGCGCAGTGAATTGAGGCTCTTCCCTGCTGTGAATGGAACAGC	1200
Db	1141	GCCACGACAGCCTTGAATGGGCGCAGTGAATTGAGGCTCTTCCCTGCTGTGAATGGAACAGC	1200
Qy	1201	AGTCTCTGGGGCTGTGTAGGACAGTCCAGCTGAATTCCGCGCTGCTGTGGTGAATCTCTTA	1260
Db	1201	AGTCTCTGGGGCTGTGTAGGACAGTCCAGCTGAATTCCGCGCTGCTGTGGTGAATCTCTTA	1260
Qy	1261	GCCCTGTATTTTGGGCTCTCTTTTGTGCTGACACAGCTCGCGTTCCTTGTGTGCAATGAGA	1320
Db	1261	GCCCTGTATTTTGGGCTCTCTTTTGTGCTGACACAGCTCGCGTTCCTTGTGTGCAATGAGA	1320
Qy	1321	AGGAGCAGACAGAAAGGGGACCAAAAGGGGATGTGACTACGGCCACAGACAGATGACCGAG	1380
Db	1321	AGGAGCAGACAGAAAGGGGACCAAAAGGGGATGTGACTACGGCCACAGACAGATGACCGAG	1380
Qy	1381	ACTGAGAGCTTAGAGAGCTGGAATCTTGAGAAATGTGAGAAAGCCAGGCAAGGCAATCTGAGGG	1440
Db	1381	ACTGAGAGCTTAGAGAGCTGGAATCTTGAGAAATGTGAGAAAGCCAGGCAAGGCAATCTGAGGG	1440
Qy	1441	GGAGCCGGTAACTGTCTGTCTGTCTCAATTATGCACTTCTTTTAACTGCGCAAGAAATT	1500
Db	1441	GGAGCCGGTAACTGTCTGTCTGTCTCAATTATGCACTTCTTTTAACTGCGCAAGAAATT	1500
Qy	1501	TTTTAAATATAATATTATTAAT	1522
Db	1501	TTTTAAATATAATATTATTAAT	1522

RESULT	10
LOCUS	C0834035
DEFINITION	C0834035
ACCESSION	C0834035
VERSION	C0834035.1
KEYWORDS	
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens

REFERENCE	AUTHORS	TITLE	JOURNAL
1	Aattle,J.H., Boardman,L.A., Bugart,L.J., Burgess,C.C., Catino,T.J., Diaveli,P., Huntress,M., Johnson,K.A., Lewis,M.E., Maimonis,P.J., Meyer,S.H., Brown-Shimer,S.L., Thilagalingam,A., Thibodeau,S.N. and Molino,G.A.	Detection methods using T1 for colon cancer diagnosis	Patent: EP 143993-A 71 21-JUL-2004, Bayer Healthcare LLC (US) ; MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (US)

```

FEATURES
  source
    location/Qualifiers
      1. .1552
        /organism="Homo sapiens"
        /mol_type="unassigned DNA"
        /db_xref="taxon:9606"

```

	Query Match	100.0%	Score 1522	DB 6	Length 1552
	Best Local Similarity	100.0%	Pred. No. 1.6e-310		
	Matches 1522	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	ACAAGTACGCCGATGAGTCCCTCCCTGTCGCCAGCCCTCGCTCCCTGTTGATCCGAGCC	60		

```

Db      31  AAGAGTACGCGGAGTGGCTCCCTGTCGCGGAGCCCTGGCTCCCTCTGTTGATCCCGGCC 90
Qy      61  CCTGCTCAGAGGCTCACTGTGCACTGTGCTGTCACTGTGCTGTCTGTATGCTGTCCAT 120
Db      91  CCTGCTCAGAGGCTCACTGTGCACTGTGCTGTCACTGTGCTGTCTGTATGCTGTCCAT 150
Qy     121  CCCCGAAGGTTGCCCCGAGTGTGAGAGGATTTCCCTTTGGAGAGAGGCTCTTCTGGGAA 180
Db     151  CCCCGAAGGTTGCCCCGAGTGTGAGAGGATTTCCCTTTGGAGAGAGGCTCTTCTGGGAA 210
Qy     181  GATGACCACTGAGGAGAGGAGATCTGCCAGTGAAGAGATTTCACTCAGAGAGAGAT 240
Db     211  GATGACCACTGAGGAGAGGAGATCTGCCAGTGAAGAGATTTCACTCAGAGAGAGAT 270
Qy     241  CCAAGGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Db     271  CCAAGGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
Qy     301  GAAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGT 360
Db     331  GAAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGT 390
Qy     361  GAGGCTCTGAGAGATCTCTCAAGAACCCAGAAATTAATGCCACAGAGGACAAAGAGGAT 420
Db     391  GAGGCTCTGAGAGATCTCTCAAGAACCCAGAAATTAATGCCACAGAGGACAAAGAGGAT 450
Qy     421  GACCAAGTCAATTGGGCTATGAGAGCGAACCCTGCGCCCGGGTGTCCCAAGCTTGC 480
Db     451  GACCAAGTCAATTGGGCTATGAGAGCGAACCCTGCGCCCGGGTGTCCCAAGCTTGC 510
Qy     481  GGGGGGCGCTTCAAGTCCCGGGTGAATCCGCCCCCAGCTGCGGCTCTGCGCCGCGC 540
Db     511  GGGGGGCGCTTCAAGTCCCGGGTGAATCCGCCCCCAGCTGCGGCTCTGCGCCGCGC 570
Qy     541  CTGCGCCCTCTGAACTCTCTGGGCTTCAAGCTCCGCGCTCCAGAACTGCGCGCTGCGC 600
Db     571  CTGCGCCCTCTGAACTCTCTGGGCTTCAAGCTCCGCGCTCCAGAACTGCGCGCTGCGC 630
Qy     601  AACATGCGCACAGTGTGCACTGACCTGCTCTGAGGCTGTGAGATGCTGTGGTCCC 660
Db     631  AACATGCGCACAGTGTGCACTGACCTGCTCTGAGGCTGTGAGATGCTGTGGTCCC 690
Qy     661  GGGCGGAGATACCGGCTCTGAGCTGTGCACTGAGGAGGCTGCAAGTGTGCCGGGC 720
Db     691  GGGCGGAGATACCGGCTCTGAGCTGTGCACTGAGGAGGCTGCAAGTGTGCCGGGC 750
Qy     721  TCGAGCACTGTGGAAGGCCACCGTTCCTCTGCGAGATCAAGTGTGTTCACTCAGC 780
Db     751  TCGAGCACTGTGGAAGGCCACCGTTCCTCTGCGAGATCAAGTGTGTTCACTCAGC 810
Qy     781  ACCGCTTTTGCAGAGTTGACGAGGCTTGGGGCGCCCGGAGAGGCTGCGCTGTGGCC 840
Db     811  ACCGCTTTTGCAGAGTTGACGAGGCTTGGGGCGCCCGGAGAGGCTGCGCTGTGGCC 870
Qy     841  GCTTTCTGAGAGAGGCGCCGGAAGAAAACATGTGCTATGACAGTTGCTGTGCTTGG 900
Db     871  GCTTTCTGAGAGAGGCGCCGGAAGAAAACATGTGCTATGACAGTTGCTGTGCTTGG 930
Qy     901  GAAAGAAATGCTGAGAGAGGCTCAGAGATCTCAGGATCCAGAGCTGAGACATATCTG 960
Db     931  GAAAGAAATGCTGAGAGAGGCTCAGAGATCTCAGGATCCAGAGCTGAGACATATCTG 990
Qy     961  CTGCGCTCTGACTTCAAGCGGCTATCTCCAAATGAGGGGTCTCTGACTACACCGGCTGT 1020
Db     991  CTGCGCTCTGACTTCAAGCGGCTATCTCCAAATGAGGGGTCTCTGACTACACCGGCTGT 1050
Qy    1021  GCCCAGGAGTGTATCTGACTGTGTTTAAACAGAGAGTGTCTGAGTCTAAGCAGCTC 1080
Db    1051  GCCCAGGAGTGTATCTGACTGTGTTTAAACAGAGAGTGTCTGAGTCTAAGCAGCTC 1110
Qy    1081  CACACCTCTCTGACACCTGTGTGGGAGCTGTGTGACTCTCGGCTACAGTGAATCTTCCGA 1140
Db    1111  CACACCTCTCTGACACCTGTGTGGGAGCTGTGTGACTCTCGGCTACAGTGAATCTTCCGA 1170

```

```

Qy     1141  GCGACGACCTTTGAATGGCGAGATGAGAGCTTCTTCTCTGCTGAGTGAACAGC 1200
Db     1171  GCGACGACCTTTGAATGGCGAGATGAGAGCTTCTTCTCTGCTGAGTGAACAGC 1230
Qy     1201  AGTCTCGGGCTGTGAGCCAGTCAAGTGAATTCGCGCCGAGCTGTGAGTGAATCTCTA 1260
Db     1231  AGTCTCGGGCTGTGAGCCAGTCAAGTGAATTCGCGCCGAGCTGTGAGTGAATCTCTA 1290
Qy     1261  GCCCTGTTTTTGGCTCTCTTTTGTCTGTCAACAGCGTGGGTTCTTGTGTCAATGAGA 1320
Db     1291  GCCCTGTTTTTGGCTCTCTTTTGTCTGTCAACAGCGTGGGTTCTTGTGTCAATGAGA 1350
Qy     1321  AGCGACACAGAGGGGAAACCAAGGGGTGTGAGCTACGCCACAGAGAGTACCGGAG 1380
Db     1351  AGCGACACAGAGGGGAAACCAAGGGGTGTGAGCTACGCCACAGAGAGTACCGGAG 1410
Qy     1381  ACTGAGCTTGAAGGCTGTGAGATCTTGAAGATGAGAGAGCCAGACAGAGGATCTGAGG 1440
Db     1411  ACTGAGCTTGAAGGCTGTGAGATCTTGAAGATGAGAGAGCCAGACAGAGGATCTGAGG 1470
Qy     1441  GAGCGGCTTAACTGTCTGTCTCTCAATTAATGACACTTCTTTTAACTGCAAGAAAT 1500
Db     1471  GAGCGGCTTAACTGTCTGTCTCTCAATTAATGACACTTCTTTTAACTGCAAGAAAT 1530
Qy     1501  TTTTAAATTAATTTTAAAT 1522
Db     1531  TTTTAAATTAATTTTAAAT 1552

RESULT 11
AX330007 1552 bp DNA linear PAT 09-JAN-2002
LOCUS AX330007
DEFINITION Sequence 516 from Patent WO0194629.
ACCESSION AX330007
VERSION AX330007.1 GI:18102985
KEYWORDS
SOURCE
  Homo sapiens (human)
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE
  1 Young, P.B., Augustus, M., Carter, K.C., Ebner, R., Endress, G.,
    Horrigan, S., Soppet, D.R. and Weaver, Z.
    Cancer gene determination and therapeutic screening using signature
    gene sets
    Patent: WO 0194629-A 516 13-DEC-2001;
    Avalon Pharmaceuticals (US)
FEATURES
  source
    1..1552
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"
ORIGIN
Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pied. No. 1,6e-310; Indels 0; Gaps 0;
Matches 1522; Conservative 0; Mismatches 0;
1 AAGTCAAGCGCATGCTCCCTGTGTCGCGGAGCCCTGAGCTCTCTGTTGATCCCGGCC 60
31 AAGTCAAGCGCATGCTCCCTGTGTCGCGGAGCCCTGAGCTCTCTGTTGATCCCGGCC 90
61 CTGCTCAAGGCTCACTGTGCAACTGTGCTGTCACTGTGCTTCTGATGCTGTCCAT 120
91 CTGCTCAAGGCTCACTGTGCAACTGTGCTGTCACTGTGCTTCTGATGCTGTCCAT 150
121 CCCGAGGTTGCCCCGAGTGTGAGAGGATTTCCCTTTGGAGAGGCTCTTCTGGGAA 180
151 CCCGAGGTTGCCCCGAGTGTGAGAGGATTTCCCTTTGGAGAGGCTCTTCTGGGAA 210
181 GATGACCACTGAGGAGAGATCTGCCAGTGAAGAGATTTCACTCAGAGAGAGAT 240

```


Db 211 GATGACCACTGCGGAGAGGAGTCTGCCAGTGAAGAGATTCAACCAGAGAGAGAT 270
Qy 241 CCAACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Db 271 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
Qy 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAGTTAGAGATCTACCTACTGTT 360
Db 331 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAGTTAGAGATCTACCTACTGTT 390
Qy 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCACAGGAGCAAGAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCACAGGAGCAAGAGAGAGAT 450
Qy 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCCGCCCTGGCCCGGGTGTCCCAAGCTGC 480
Db 451 GACCAAGATCATTTGGGCTATGAGAGGAGCCCGCCCTGGCCCGGGTGTCCCAAGCTGC 510
Qy 481 GCGGCGCCCTTCAAGTCCCGGAGATATCCGCCCCCAAGCTGCGCCCTTCTGCGCGCC 540
Db 511 GCGGCGCCCTTCAAGTCCCGGAGATATCCGCCCCCAAGCTGCGCCCTTCTGCGCGCC 570
Qy 541 CTGCGCCCCCTGGAATCTCTGGGCTTCAAGCTCCCGCGCTCCAGAACTGCGCGCTGCGC 600
Db 571 CTGCGCCCCCTGGAATCTCTGGGCTTCAAGCTCCCGCGCTCCAGAACTGCGCGCTGCGC 630
Qy 601 AACATGCGCAAGATGTGCACTGACCCCTGCTCTGGGCTTGAAGATGCTCTGGGCTCCC 660
Db 631 AACATGCGCAAGATGTGCACTGACCCCTGCTCTGGGCTTGAAGATGCTCTGGGCTCCC 690
Qy 661 GGGCGGAGATACCGGCTCTGAGAGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGAGC 720
Db 691 GGGCGGAGATACCGGCTCTGAGAGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGAGC 750
Qy 721 TCGGAGCACTGTGGAAGGCCACCGCTTCCCTGCGAGATCAAGCTGTTCACTCAAC 780
Db 751 TCGGAGCACTGTGGAAGGCCACCGCTTCCCTGCGAGATCAAGCTGTTCACTCAAC 810
Qy 781 ACCGCTTTGCGAGAGTTGAAGAGGCTTGGGAGGCTCCGAGAGGCTGCTGTTGGCC 840
Db 811 ACCGCTTTGCGAGAGTTGAAGAGGCTTGGGAGGCTCCGAGAGGCTGCTGTTGGCC 870
Qy 841 GCGTTTCTGAGAGAGGAGCCCGAGAAACAGTCTATGAGAGATGCTGCTGCTG 900
Db 871 GCGTTTCTGAGAGAGGAGCCCGAGAAACAGTCTATGAGAGATGCTGCTGCTG 930
Qy 901 GAGAGAAATGCTGAGAGAGGCTCAGAGATCAAGTCCAGAGCTGAGCAATATCTGACATC 960
Db 931 GAGAGAAATGCTGAGAGAGGCTCAGAGATCAAGTCCAGAGCTGAGCAATATCTGACATC 990
Qy 961 CTGCGCTCTGACTTCAAGCCGCTTCAATATGAGAGGCTCTGACTACACCGCCCTGT 1020
Db 991 CTGCGCTCTGACTTCAAGCCGCTTCAATATGAGAGGCTCTGACTACACCGCCCTGT 1050
Qy 1021 GCGCAGGAGTATCTGAGCTGAGTGTATACAGAGAGATGCTGAGTCTGAGAGAGCTC 1080
Db 1051 GCGCAGGAGTATCTGAGCTGAGTGTATACAGAGAGATGCTGAGTCTGAGAGAGCTC 1110
Qy 1081 CACACCTCTCTGAGACCCCTGTGAGGAGCTGCTGAGTCAAGCTGAACTTCCGA 1140
Db 1111 CACACCTCTCTGAGACCCCTGTGAGGAGCTGCTGAGTCAAGCTGAACTTCCGA 1170
Qy 1141 GCGAGCGAGCCTTTGAAATGAGGAGTGAATGAGGCTCTTCTGCTGAGAGTGAACGC 1200
Db 1171 GCGAGCGAGCCTTTGAAATGAGGAGTGAATGAGGCTCTTCTGCTGAGAGTGAACGC 1230
Qy 1201 AGTCTCTGAGGCTGAGAGCAAGCTGAGATTCCTGCTGAGGCTGAGTGAATTCCTA 1260
Db 1231 AGTCTCTGAGGCTGAGAGCAAGCTGAGATTCCTGCTGAGGCTGAGTGAATTCCTA 1290
Qy 1261 GCGCTGTTTGGGCTCTTCTTGTGCTGCAAGAGTGGCTTCTTGTGAGATGAGA 1320
Db 1291 GCGCTGTTTGGGCTCTTCTTGTGCTGCAAGAGTGGCTTCTTGTGAGATGAGA 1350

Qy 1321 AGCAGACAGAGAGGAGAACCAAGGGGCTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380
Db 1351 AGCAGACAGAGAGGAGAACCAAGGGGCTGAGCTACCGCCAGAGAGGTAAGCCGAG 1410
Qy 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGAGAAAGCCAGCAGAGGATCTGAGAG 1440
Db 1411 ACTGAGCCTTGAAGGCTGATCTTGAAGATGAGAAAGCCAGCAGAGGATCTGAGAG 1470
Qy 1441 GAGCCGCTTGAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
Db 1471 GAGCCGCTTGAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 12
AX332607
LOCUS AX332607 1552 bp DNA linear PAT 09-JUN-2002
DEFINITION Sequence 3116 from Patent WO0194629.
ACCESSION AX332607
VERSION AX332607.1 GI:18123241
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE
AUTHORS Young P.B., Augustus M., Carter K.C., Ehner R., Endress G.,
Horrigan S., Soppet D.R. and Weaver Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets
JOURNAL Patent: WO 0194629-A 3116 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES
source
1. 1552
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pred. No. 1,6e-310; Mismatches 0; Indels 0; Gaps 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTCAGCCGATGAGTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCCGCC 60
Db 31 ACAGTCAGCCGATGAGTCCCTGTCGCCAGCCCTGAGCTCCCTGTTGATCCCGCC 90
Qy 61 CCTGCTCAGGCTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CCTGCTCAGGCTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
Qy 121 CCCAGAGGTTGCCCCGAGATGAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGAA 180
Db 151 CCCAGAGGTTGCCCCGAGATGAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGAA 210
Qy 181 GATGACCCACTGGGAGAGAGATCTGCCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGGGAGAGAGATTTGCCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 270
Qy 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Db 271 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
Qy 301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAATTGAGAGATCTACTGTT 360
Db 331 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAATTGAGAGATCTACTGTT 390
Qy 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCACAGGAGCAAGAGAGAGAT 420

391 GAGGCTCTGGAGATCTCAAGAACCCCAATTAATGCCACAGGACAAAGAGGGAT 450
421 GACCAAGATCATGCGCTATGAGAGCCGACCCGCTGAGCCCGGGGTGTCCCACTGC 480
451 GACCAAGATCATGCGCTATGAGAGCCGACCCGCTGAGCCCGGGGTGTCCCACTGC 510
481 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 540
511 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 570
541 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 600
571 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 630
601 AACAAATGCGCAGATGTCAGTACCTGCTCTGCGGCTAGAGATGAGCTTGGGATCC 660
631 AACAAATGCGCAGATGTCAGTACCTGCTCTGCGGCTAGAGATGAGCTTGGGATCC 690
661 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 720
691 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 750
721 TCGGAGCACTATGAGAGAGCCAGCTTCCGCGAGATCAGATGAGTCACTTCACTCAGC 780
751 TCGGAGCACTATGAGAGAGCCAGCTTCCGCGAGATCAGATGAGTCACTTCACTCAGC 810
781 ACCGCTTTGCGAGAGTTCAGAGGCTTTGGGGCGCCGAGAGGCTTGGCCGTGTGGCC 840
811 ACCGCTTTGCGAGAGTTCAGAGGCTTTGGGGCGCCGAGAGGCTTGGCCGTGTGGCC 870
841 GCGCTTTGAG 900
871 GCGCTTTGAG 930
901 GAAAGAAATGCTGAGAGAGAGCTCAGAGATCAGTCCAGAGATGAGATCTGCACTC 960
931 GAAAGAAATGCTGAGAGAGAGCTCAGAGATCAGTCCAGAGATGAGATCTGCACTC 990
961 CTGCTCTGAGCTTCAAGCGCTTCACTTCAATATGAGAGAGAGAGAGAGAGAGAG 1020
991 CTGCTCTGAGCTTCAAGCGCTTCACTTCAATATGAGAGAGAGAGAGAGAGAGAG 1050
1021 GCGGAG 1080
1051 GCGGAG 1110
1081 CACACCTCTCTGAGACCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
1111 CACACCTCTCTGAGACCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1170
1141 GCGAGCGAG 1200
1171 GCGAGCGAG 1230
1201 AGTCTCTGAG 1260
1231 AGTCTCTGAG 1290
1261 GCGCTGATTTTGGCTCTCTTTTGTGTCACCAAGTGTGCTTCTTGTGAGATGAGA 1320
1291 GCGCTGATTTTGGCTCTCTTTTGTGTCACCAAGTGTGCTTCTTGTGAGATGAGA 1350
1321 AGGAG 1380
1351 AGGAG 1410
1381 ACTGAG 1440
1411 ACTGAG 1470
1441 GAGAGCGGATCATGCTCTGCTCATATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1500
1471 GAGAGCGGATCATGCTCTGCTCATATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1530

QY 1501 TTTTAAATTAATTTATTAAT 1522
Db 1531 TTTTAAATTAATTTATTAAT 1552

RESULT 13
AX33244 1552 bp DNA linear PAT 09-JAN-2002
LOCUS AX33244
DEFINITION Sequence 3753 from Patent WO0194629.
ACCESSION AX33244
VERSION AX33244.1 GI:18123878
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1 Young, P.E., Augustus, M., Carter, K.C., Ebner, R., Endress, G.,
Horrigan, S., Soppet, D.R. and Weaver, Z.
Cancer gene determination and therapeutic screening using signature
gene sets
Patent: WO 0194629-A 3753 13-DEC-2001;
Avalon Pharmaceuticals (US)

FEATURES
source
1..1552
location/qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pred. No. 1.e-310; Indels 0; Gaps 0;
Matches 1522; Conservative 0; Mismatches 0;

QY 1 ACAGTACGCGAG 60
Db 31 ACAGTACGCGAG 90
QY 61 CTGTCTCAG 120
Db 91 CTGTCTCAG 150
QY 121 CCGGAG 180
Db 151 CCGGAG 210
QY 181 GATGAG 240
Db 211 GATGAG 270
QY 241 CCACCCGAG 300
Db 271 CCACCCGAG 330
QY 301 GAAATTAAAGCTTAATAG 360
Db 331 GAAATTAAAGCTTAATAG 390
QY 361 GAGGCTCTGAGAGATCTCAAGAAACCCCAATATATGCCACAGGACAAAGAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCAAGAAACCCCAATATATGCCACAGGACAAAGAGAGAGAT 450
QY 421 GACCAAGATCATGCGCTATGAGAGCCGACCCGCTGAGCCCGGGGTGTCCCACTGC 480
Db 451 GACCAAGATCATGCGCTATGAGAGCCGACCCGCTGAGCCCGGGGTGTCCCACTGC 510
QY 481 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 540
Db 511 GGGGGCCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 570
QY 541 CTGCGCCCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTGTCCCGGAC 600

Db 571 CTGCGCCCCCTGAACTCCTGAGGCTTCAAGCTCCCGCCGCTCCAGAACTGCGCTGCGC 630
Qy 601 AACATAGGCGACAGTGTGCACTGACCCGCGCTCCGAGGCTAGAGATGGCTCGGGTCCC 660
Db 631 AACAAATGCGACAGTGTGCACTGACCCGCGCTCCGAGGCTAGAGATGGCTCGGGTCCC 690
Qy 661 GGGCGGAGTACCGGGCTCTGAGCTGCTGCACTGCACTGAGGAGGCTGCAAGTGTCCGGCC 720
Db 691 GGGCGGAGTACCGGGCTCTGAGCTGCTGCACTGCACTGAGGAGGCTGCAAGTGTCCGGCC 750
Qy 721 TCGAGACACCTGTGAGAGGCCACCGTTTCCCTGCGAGATCCAGTGTTCACCTCAGC 780
Db 751 TCGAGACACCTGTGAGAGGCCACCGTTTCCCTGCGAGATCCAGTGTTCACCTCAGC 810
Qy 781 ACCGCTTTGCGAGAGTGAACGAGGCTTGGGGCGCGCGGAGGCTGCGCGCTGTTGGCC 840
Db 811 ACCGCTTTGCGAGAGTGAACGAGGCTTGGGGCGCGCGGAGGCTGCGCGCTGTTGGCC 870
Qy 841 GCGTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGCACTTGTCTCGCTTG 900
Db 871 GCGTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGAGCACTTGTCTCGCTTG 930
Qy 901 GAAAGAAATCGTGAAGAGGCTTCAAGACTCAAGTCCAGACTGAGCATATCTGCACTC 960
Db 931 GAAAGAAATCGTGAAGAGGCTTCAAGACTCAAGTCCAGACTGAGCATATCTGCACTC 990
Qy 961 CTGCGCTTCTGACTTCAAGCGGCTAATCTCAATATGAGGAGTCTTGTACTACACCGCTCT 1020
Db 991 CTGCGCTTCTGACTTCAAGCGGCTAATCTCAATATGAGGAGTCTTGTACTACACCGCTCT 1050
Qy 1021 GCGCAAGGAGTATCTGAGCTGCTGTTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
Db 1051 GCGCAAGGAGTATCTGAGCTGCTGTTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGTGAGGAGCCTGTGACTCTCGGCTACAGTGAATCTTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGTGAGGAGCCTGTGACTCTCGGCTACAGTGAATCTTCCGA 1170
Qy 1141 GCGAGCGACCTTTGAAATGGGGGAGTGAATGAGGCTCTCTGCTGTGAGTGAAGCAGC 1200
Db 1171 GCGAGCGACCTTTGAAATGGGGGAGTGAATGAGGCTCTCTGCTGTGAGTGAAGCAGC 1230
Qy 1201 AGTCCCTCGGAGCTGAGCAGTCCAGCTGAATCTCTGCTGAGCTGCTGATGACCTTA 1260
Db 1231 AGTCCCTCGGAGCTGAGCAGTCCAGCTGAATCTCTGCTGAGCTGCTGATGACCTTA 1290
Qy 1261 GCGCTGTGTTTGGCTCTCTTGTGCTGCAACAGGCTGCGTCTCTTGTGAGATGAGA 1320
Db 1291 GCGCTGTGTTTGGCTCTCTTGTGCTGCAACAGGCTGCGTCTCTTGTGAGATGAGA 1350
Qy 1321 AGGCGACACAGAAAGGGGAAACAAAGGGGCTGTGAGTACCGCCAGAGAGTACCGAG 1380
Db 1351 AGGCGACACAGAAAGGGGAAACAAAGGGGCTGTGAGTACCGCCAGAGAGTACCGAG 1410
Qy 1381 ACTGAGACCTAAGAGCTGATCTTGTGAGATGAGAAAGCCAGAGGAGCTGAGAGG 1440
Db 1411 ACTGAGACCTAAGAGCTGATCTTGTGAGATGAGAAAGCCAGAGGAGCTGAGAGG 1470
Qy 1441 GAGAGCGGTAACGTCTGTCTGCTCATTAATGCACTTCTTTAACTGCGCAAGAAAT 1500
Db 1471 GAGAGCGGTAACGTCTGTCTGCTCATTAATGCACTTCTTTAACTGCGCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 14
AX336174
LOCUS AX336174 1552 bp DNA linear PAT 09-JUN-2002
DEFINITION Sequence 6683 from Patent WO0194629.
ACCESSION AX336174
VERSION AX336174.1 GI:18126893

KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
ORIGIN

Query Match 100.0%; Score 1522; DB 6; Length 1552;
Best Local Similarity 100.0%; Pred. No. 1,66-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ACAGTCAAGCCGATGCTCCCTGTGCCCCAGACCCCTGAGCTCTGTGATCCGAGC 60
31 ACAGTCAAGCCGATGCTCCCTGTGCCCCAGACCCCTGAGCTCTGTGATCCGAGC 90
61 CTGCTCCAGGCTTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
91 CTGCTCCAGGCTTCACTGTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
121 CCCAGAGGTTGCCCCGATGAGAGGATTCCTCCCTTGGGAGAGGCTCTTCTGAGGAA 180
151 CCCAGAGGTTGCCCCGATGAGAGGATTCCTCCCTTGGGAGAGGCTCTTCTGAGGAA 210
181 GATGACCACTGAGGAGAGGATTCGCTGAGTGAAGAGATTCACCCAGAGAGAGAT 240
211 GATGACCACTGAGGAGAGGATTCGCTGAGTGAAGAGATTCACCCAGAGAGAGAT 270
241 CCACCCGAGAGAGAGATTCCTGAGAGAGATTCACCTGAGAGAGAGATTCACCT 300
271 CCACCCGAGAGAGATTCCTGAGAGAGATTCACCTGAGAGAGAGATTCACCT 330
301 GAAGTTAAGCCTAATCAAGAGAGAGGCTCCGAAAGTTAGAGATCTACCTGAT 360
331 GAAGTTAAGCCTAATCAAGAGAGAGGCTCCGAAAGTTAGAGATCTACCTGAT 390
361 GAGGCTCTGAGATCTCAAGAACCCCAAGATTAATGCCCAGAGAGAGAGAT 420
391 GAGGCTCTGAGATCTCAAGAACCCCAAGATTAATGCCCAGAGAGAGAGAT 450
421 GACCAAGTCAATGAGGCTATGAGAGGCAACCGGCTTGGCCCGAGTGTCCAGCCTGC 480
451 GACCAAGTCAATGAGGCTATGAGAGGCAACCGGCTTGGCCCGAGTGTCCAGCCTGC 510
481 GGGGCGGCTTCAATGCTCCCGGTGATATCCGCCCCAGCTGCGGCTTGTGCGCGGC 540
511 GGGGCGGCTTCAATGCTCCCGGTGATATCCGCCCCAGCTGCGGCTTGTGCGCGGC 570
541 CTGCGCCCCCTGGAATCTCTGAGGCTTCCAGCTCCGCGGCTCCCAAGACTGCGCGC 600
571 CTGCGCCCCCTGGAATCTCTGAGGCTTCCAGCTCCGCGGCTCCCAAGACTGCGCGC 630
601 AACAAATGCGACAGTGTGCACTGACCCGCGCTCCGAGGCTAGAGATGGCTTGGGTC 660
631 AACAAATGCGACAGTGTGCACTGACCCGCGCTCCGAGGCTAGAGATGGCTTGGGTC 690
661 GGGCGGAGTACCGGGCTCTGAGCTGCTGCACTGCACTGAGGAGGCTGCAAGTGTCCGGCC 720
691 GGGCGGAGTACCGGGCTCTGAGCTGCTGCACTGCACTGAGGAGGCTGCAAGTGTCCGGCC 750
721 TCGAGACACCTGTGAGAGGCCACCGTTTCCCTGCGAGATCCAGTGTTCACCTCAGC 780

```

Db      751  TCGAGACACACTGTGGAAGGCCACCGTTTCCCTGCCGAGATCCAGCTGGTTCACTCAGC 810
Qy      781  ACCGCTTTGCCAGAGTTGACGAGGCTTTGGGGCGCCCGGAGAGCTGGCCGTGTTGGCC 840
Db      811  ACCGCTTTGCCAGAGTTGACGAGGCTTTGGGGCGCCCGGAGAGCTGGCCGTGTTGGCC 870
Qy      841  GCGTTCTGAGAGAGGGCCCGGAGAGAAACAGTGCCTATGAGAGTGTGCTGTGCTGG 900
Db      871  GCGTTCTGAGAGAGGGCCCGGAGAGAAACAGTGCCTATGAGAGTGTGCTGTGCTGG 930
Qy      901  GAGAAATCGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGGACTGAGCATATCTGACATC 960
Db      931  GAGAAATCGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGGACTGAGCATATCTGACATC 990
Qy      961  CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Db      991  CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATGAGGGGTCTCTGACTACACCGCCCTGT 1050
Qy      1021  GCCCAGGGTGTGATCTGAGACTGTGTTAACAGAGATGCTGAGTGTCTAAGCAGCTC 1080
Db      1051  GCCCAGGGTGTGATCTGAGACTGTGTTAACAGAGATGCTGAGTGTCTAAGCAGCTC 1110
Qy      1081  CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTCGGCTACAGCTGAATCTCCGA 1140
Db      1111  CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTCGGCTACAGCTGAATCTCCGA 1170
Qy      1141  GCGAGCGAGCTTTGATGAGGGGAGTGTGATGAGGCTCTCTCTGCTGAGTGAAGCAGC 1200
Db      1171  GCGAGCGAGCTTTGATGAGGGGAGTGTGATGAGGCTCTCTCTGCTGAGTGAAGCAGC 1230
Qy      1201  AGTCTCTGGGGCTGCTGAGCAGCTGAGTCCAGTGAATCTCTGCTGAGTGAAGTCAATCTCA 1260
Db      1231  AGTCTCTGGGGCTGCTGAGCAGCTGAGTCCAGTGAATCTCTGCTGAGTGAAGTCAATCTCA 1290
Qy      1261  GCGCTGTGTTTGGCCCTCTCTTGTGCTGACACAGGCTGCGCTCTCTGCTGAGTGAAG 1320
Db      1291  GCGCTGTGTTTGGCCCTCTCTTGTGCTGACACAGGCTGCGCTCTCTGCTGAGTGAAG 1350
Qy      1321  AAGCAGCAGAGAGAGGAGAACAAAGGGGGTGTGAGTACCGCCAGCAGAGAGTGAAGCAG 1380
Db      1351  AAGCAGCAGAGAGAGGAGAACAAAGGGGGTGTGAGTACCGCCAGCAGAGAGTGAAGCAG 1410
Qy      1381  ACTGAGGCTGAGAGGCTGTGATCTTGAGAGATGTGAGAGCCAGCAGAGAGCATGAGGG 1440
Db      1411  ACTGAGGCTGAGAGGCTGTGATCTTGAGAGATGTGAGAGCCAGCAGAGAGCATGAGGG 1470
Qy      1441  GGAGCGGTAAGTCTGCTGCTGCTCATTAATGCCATTCTTTTAATGCCAGAAATT 1500
Db      1471  GGAGCGGTAAGTCTGCTGCTGCTCATTAATGCCATTCTTTTAATGCCAGAAATT 1530
Qy      1501  TTTTAAATTAATATTTTAAAT 1522
Db      1531  TTTTAAATTAATATTTTAAAT 1552

```

RESULT 15

```

HSMATMNM  HSMATMNM  1552 bp  mRNA  linear  PRI 10-OCT-1995
LOCUS      H.sapiens Matu MN mRNA for p54/58n protein.
ACCESSION  X66839
VERSION    1
KEYWORDS   transmembrane glycoprotein.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
REFERENCE  1 (bases 1 to 1552)
AUTHORS    Pastorek J.
TITLE      Direct Submission
JOURNAL    Submitted (11-JUN-1992) J. Pastorek, Institute of Virology, Slovak
REPUBLIC   Academy of Sciences, Dubravka 9, 842 46 Bratislava, SLOVAK
REMARK     revised by [3] MAT

```

```

REFERENCE  2 (bases 1 to 1552)
AUTHORS    Pastorek J., Pastorekova S., Callebaut I., Morrison J., Zelnik V.,
            Opavsky R., Zatoricova M., Liao S., Portetelle D., Standridge B.J.,
            Zavada J. and Burny A.
TITLE      Cloning and characterization of MN, a human tumor-associated
            protein with a domain homologous to carbonic anhydrase and a
            putative helix-loop-helix DNA binding segment
JOURNAL    Oncogene 9 (10), 2877-2888 (1994)
MEDLINE    9436734
PUBMED     8084592
REFERENCE  3 (bases 1 to 1552)
AUTHORS    Pastorek J.
TITLE      Direct Submission
JOURNAL    Submitted (19-JUL-1994) J. Pastorek, Institute of Virology, Slovak
            Academy of Sciences, Dubravka 9, 842 46 Bratislava, SLOVAK
REPUBLIC
REMARK     revised by [4] MAT
REFERENCE  4 (bases 1 to 1552)
AUTHORS    Pastorek J.
TITLE      Direct Submission
JOURNAL    Submitted (28-SEP-1995) J. Pastorek, Institute of Virology, Slovak
            Academy of Sciences, Dubravka 9, 842 46 Bratislava, SLOVAK
REPUBLIC
COMMENT    On Sep 29, 1995 this sequence version replaced gi:558593.
FEATURES
SOURCE     location/Qualifiers
            1..1552
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            1..1519
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="MN1"
            /cell_type="epithelial"
            /tissue_type="carcinoma"
            /clone_lib="lambda gt11"
            43..1422
            /gene="Matu MN"
            43..1422
            /gene="Matu MN"
            /gene="Matu MN"
            /product="p54/58n"
            /protein_id="CAA47315.1"
            /db_xref="GI:100702"
            /db_xref="TrEMBL:Q16790"
            /translation="MADLCSPWLPPLIPAPAPGLTVQLLSLLLMFVHPDRPRMQ
            EDSPLGGSSGSDPLGEEDLPSEDSPPREDDLPGEEDLPGEEDLPGEEDLPGEEDLP
            EEDSLKLEDDPVEAPGDPOEPONNHRDDEGDOSHWRYGDPMPMPVSPACAGRF
            OSPYDIRPOLAFCPALRPELIGFOLPPLBELRLRNHGSVOLTLPGLEMALGRGR
            EYRALQHLHKGAGRPSEHTVGGHPAEIHYHLSSTARVDEALRGEGALAVLA
            AFLEGPENSAVEQLLSRLELAEBSSTVPELUDLSALPSDFSRFOEGSLTTP
            PCAQGVITVENQVMLSAKQLHTLSLTMGPDSRLQNFRAQPLNGRYIASFPA
            GVDSPRAAEVPVQNSCLAAGDIALVFGLFAVTSVAFLVQMRORHRRGTGVSYSR
            PAVVAETGA"

```

ORIGIN

```

Query Match 100.0%; Score 1522; DB 9; Length 1552;
Best Local Similarity 100.0%; Pred. No. 1.6e-310;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      1  AAGTCAGCGGAGAGGCTCCCTGTCGCCAGCCCTGCGTCCCTGTTGATCCCGGCC 60
Db      31  AAGTCAGCGGAGAGGCTCCCTGTCGCCAGCCCTGCGTCCCTGTTGATCCCGGCC 90
Qy      61  CTTGCTCAGGCTCACTGTGCAACTGCTGTGCTCACTGTGCTTGTGAGCTGTCCAT 120
Db      91  CTTGCTCAGGCTCACTGTGCAACTGCTGTGCTCACTGTGCTTGTGAGCTGTCCAT 150
Qy      121  CCCAGAGGTTCCCGGAGTCAGAGAGATTCCTCCCTTGGAGAGAGCTCTTGGGAA 180
Db      151  CCCAGAGGTTCCCGGAGTCAGAGAGATTCCTCCCTTGGAGAGAGCTCTTGGGAA 210

```

```

QY 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGATGAAAGAGATTTCACCCAGAGAGAGAT 240
DB 211 GATGACCCACTGGGCGAGAGAGATCTGCCAGATGAAAGAGATTTCACCCAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 271 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
QY 301 GAAATTAAAGCTTAAATCAGAGAGAGAGAGAGAGAGATCTACCTGAGAGAGATCTACCT 360
DB 331 GAAATTAAAGCTTAAATCAGAGAGAGAGAGAGAGAGATCTACCTGAGAGAGATCTACCT 390
QY 361 GAGGCTCTGAGAGATCTCTCAAGAACCCGAGATTAATGCCACAGGAGACAAAGAGAGAT 420
DB 391 GAGGCTCTGAGAGATCTCTCAAGAACCCGAGATTAATGCCACAGGAGACAAAGAGAGAT 450
QY 421 GACGAGATCATTTGGCGCTATGAGAGCGACCCGCGCTGGCCCGGAGTCTCCAGAGCTGC 480
DB 451 GACGAGATCATTTGGCGCTATGAGAGCGACCCGCGCTGGCCCGGAGTCTCCAGAGCTGC 510
QY 481 GGGGCGCGCTTTCAGATCCCGGCTGATATCCGCGCGCGAGCTTCTGCGCGCGC 540
DB 511 GCGGCGCGCTTTCAGATCCCGGCTGATATCCGCGCGCGAGCTTCTGCGCGCGC 570
QY 541 CTGGCGCGCGCTTTCAGATCCCGGCTGATATCCGCGCGCGAGCTTCTGCGCGCGC 600
DB 571 CTGGCGCGCGCTTTCAGATCCCGGCTGATATCCGCGCGCGAGCTTCTGCGCGCGC 630
QY 601 AACAAATGGCCACAGATGTCAGACTGACCCCTGCTGAGCTAGAGATGAGCTCTGAGTCCC 660
DB 631 AACAAATGGCCACAGATGTCAGACTGACCCCTGCTGAGCTAGAGATGAGCTCTGAGTCCC 690
QY 661 GGGCGGAGATACCGGCTCTGCACTGCTGCACTGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 691 GGGCGGAGATACCGGCTCTGCACTGCTGCACTGAGAGAGAGAGAGAGAGAGAGAGAG 750
QY 721 TCGGAGCACTGTGGAAGGCAACGCTTCCCTGCGAGATTCACATGCTTCACTCAGC 780
DB 751 TCGGAGCACTGTGGAAGGCAACGCTTCCCTGCGAGATTCACATGCTTCACTCAGC 810
QY 781 ACCGCTTTGCGAGAGTTCAGAGGCTTGGGCGCGCCGAGAGAGAGAGAGAGAGAGAGAG 840
DB 811 ACCGCTTTGCGAGAGTTCAGAGGCTTGGGCGCGCCGAGAGAGAGAGAGAGAGAGAGAG 870
QY 841 GCGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 871 GCGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 930
QY 901 GAAAGAAATCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB 931 GAAAGAAATCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 990
QY 961 CTGCGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 991 CTGCGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1050
QY 1021 GCCCAGAGGCTGATCTGAGCTGTGTTAAACAGACAGTATGCTGAGAGAGAGAGAG 1080
DB 1051 GCCCAGAGGCTGATCTGAGCTGTGTTAAACAGACAGTATGCTGAGAGAGAGAGAGAG 1110
QY 1081 CACACCTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 1111 CACACCTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1170
QY 1141 GCGAGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
DB 1171 GCGAGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1230
QY 1201 AGTCTCTGGGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
DB 1231 AGTCTCTGGGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1290
QY 1261 GCGCTGCTTTTGGCGCTCTTTTGTGTCACACAGGCTGCGTCTTGTGAGATGAGA 1320

```

```

DB 1291 GCGCTGCTTTTGGCGCTCTTTTGTGTCACACAGGCTGCGTCTTGTGAGATGAGA 1350
QY 1321 AGGCAAGCACAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
DB 1351 AGGCAAGCACAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1410
QY 1381 ACTGAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1440
DB 1411 ACTGAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1470
QY 1441 GAGGCGGTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1471 GAGGCGGTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1531 TTTTAAATTAATTTTAAAT 1552

```

Search completed: February 6, 2005, 05:55:03
 Job time : 6361 secs

XX MN gene, protein and nucleic acid fragments - used as primers and probes
PT in the detection of MN antigens and antibodies, and in the treatment of
PT (pre)neoplastic disease.

PS Claim 1; Fig 1; 102pp; English.

XX The present sequence is the full length MuTu endogenous cellular
CC component, MN, cDNA clone, which was isolated from lymphocytic
CC choriomeningitis virus (LCMV) infected HeLa cells. Persistent LCMV, the
CC exogenous MuTu transmissible agent (MX), infection increases the
CC expression level of the MN gene. MN is a putative oncogene, and can
CC therefore be used in the development of prods. for the diagnosis and
CC treatment of neoplastic (NP), or pre-NP diseases. NP diseases can be
CC treated using DNA antisense to MN transcribed mRNA, anti-MN protein
CC antibodies can be used for the diagnosis NP or pre-NP diseases and a
CC vaccine contg. immunogenic amounts of the MN protein can be used to
CC immunise a vertebrate against a NP disease associated with MN antigen
CC expression. (Updated on 25-MAR-2003 to correct PR field.)

XX Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 2; Length 1522;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 ACGAGCAGCGCGATGCTCCCTGTCGCCCAAGCCCTGCTCCCTGTTGATCCCGGCC 60
DB 1 ACGAGCAGCGCGATGCTCCCTGTCGCCCAAGCCCTGCTCCCTGTTGATCCCGGCC 60
QY 61 CCGCTCCAGGCGCTCACTGTCGCACTGCTGCTCACTGCTGCTCTGATGCTGCTCAT 120
DB 61 CCGCTCCAGGCGCTCACTGTCGCACTGCTGCTCACTGCTGCTCTGATGCTGCTCAT 120
QY 121 CCCCAAGAGTTGCCCGGATGAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAGA 180
DB 121 CCCCAAGAGTTGCCCGGATGAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAGA 180
QY 121 CCCCAAGAGTTGCCCGGATGAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAGA 180
DB 121 CCCCAAGAGTTGCCCGGATGAGAGATTCCTCCCTTGGAGAGAGCTCTTCTGGGAGA 180
QY 181 GATGACCCACTGCGGCGAGAGAGATCTGCCCAAGTGAAGAGATTCAACCCAGAGAGAGAT 240
DB 181 GATGACCCACTGCGGCGAGAGAGATCTGCCCAAGTGAAGAGATTCAACCCAGAGAGAGAT 240
QY 241 CCAACCGGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACT 300
DB 241 CCAACCGGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACT 300
QY 301 GAAGTTAAGCTTAATCAGAGAAGAGAGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAAGAGAGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
QY 361 GAGGCTCTGAGAGATCTTAAGAACCCCAAGTATATGCCACAGGACAAAGAGAGAT 420
DB 361 GAGGCTCTGAGAGATCTTAAGAACCCCAAGTATATGCCACAGGACAAAGAGAGAT 420
QY 421 GACCAAGATCATTTGGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
DB 421 GACCAAGATCATTTGGGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
QY 481 GCGGCGCGCTTCAAGTCCCGGATGATCCGCCCCAGCTGCGCTTCTGCGCGGCC 540
DB 481 GCGGCGCGCTTCAAGTCCCGGATGATCCGCCCCAGCTGCGCTTCTGCGCGGCC 540
QY 541 CTGCGCGCGCTTCAAGTCCCGGATGATCCGCCCCAGCTGCGCTTCTGCGCGGCC 600
DB 541 CTGCGCGCGCTTCAAGTCCCGGATGATCCGCCCCAGCTGCGCTTCTGCGCGGCC 600
QY 601 AACCAATGCGCAGATGATGACCTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAT 660
DB 601 AACCAATGCGCAGATGATGACCTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAT 660
QY 661 GAGGCGGAGATCTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
DB 661 GAGGCGGAGATCTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
```

```
QY 721 TCGAGCACTGTGGAAGGCAACCTGTTCCCTGCGAGATCCAGTGGTTCACTCAAC 780
DB 721 TCGAGCACTGTGGAAGGCAACCTGTTCCCTGCGAGATCCAGTGGTTCACTCAAC 780
QY 781 ACCGCTTTGCAAGATTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 840
DB 781 ACCGCTTTGCAAGATTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 840
QY 841 GCTTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 900
DB 841 GCTTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 900
QY 901 GAGAGATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 960
DB 901 GAGAGATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 960
QY 961 CTGCGCTGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1020
DB 961 CTGCGCTGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1020
QY 1021 GCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1080
DB 1021 GCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1080
QY 1081 CACACCTCTGTCAGACCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1140
DB 1081 CACACCTCTGTCAGACCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1140
QY 1141 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1200
DB 1141 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1200
QY 1201 AGTCTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1260
DB 1201 AGTCTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1260
QY 1261 GCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1320
DB 1261 GCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1320
QY 1321 AGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1380
DB 1321 AGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1380
QY 1381 ACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1440
DB 1381 ACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1440
QY 1441 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1500
DB 1441 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1500
QY 1501 TTTTAAATTAATTTTAAAT 1522
DB 1501 TTTTAAATTAATTTTAAAT 1522
RESULT 2
AA16540
ID AA16540 standard; cDNA; 1522 BP.
AC AAA16540;
XX 16-JUN-2000 (first entry)
DE Human MN protein encoding cDNA seq ID NO:1.
XX Human, MN protein; MN gene; oncogene; carbonic anhydrase; tumour;
KM oncogenesis; diagnosis; neoplastic disease; cancer; carcinoma;
KW MN/CA IX isoenzyme; ds.
XX Homo sapiens.
OS
```


XX US6027887-A.
 XX 22-FEB-2000.
 XX 24-JAN-1997; 97US-00787739.
 XX 21-OCT-1992; 92US-00964589.
 XX 30-DEC-1993; 93US-00177093.
 XX 15-JUN-1994; 94US-00260190.
 XX 07-JUN-1995; 95US-00477504.
 XX 07-JUN-1995; 95US-00481658.
 XX 07-JUN-1995; 95US-00485049.
 XX 07-JUN-1995; 95US-00485862.
 XX 07-JUN-1995; 95US-00485863.
 XX 07-JUN-1995; 95US-00486756.
 XX 07-JUN-1995; 95US-00487077.
 XX (SLSC-) SLOVAK ACADEMY SCI INST VIROLOGY.
 XX Pastorek J, Zavada J, Pastorekova S;
 XX WPI; 2000-194827/17.
 XX P-PSDB; AAY53228.

PT Nucleic acid based assay for diagnosing a wide variety of
 PT preneoplastic/neoplastic disease comprises screening for the presence of
 PT abnormal MN gene expression in a vertebrate.

PS Claim 1; Fig 1; 87p; English.

XX The present invention describes a method of screening for
 XX preneoplastic/neoplastic disease. The method comprises: (1) determining
 XX whether abnormal MN gene expression is present in a vertebrate; and (2)
 XX if abnormal MN gene expression is determined to be present in the
 XX vertebrate, determining that the vertebrate has a significant risk of
 XX having preneoplastic/neoplastic disease. The MN gene is an oncogene and
 XX encodes an MN protein (also referred to as MN/CA IX isoenzyme). The MN
 XX protein is a tumour associated carbonic anhydrase isoenzyme. The method
 XX is used for detecting a wide variety of preneoplastic/neoplastic diseases
 XX in a vertebrate, preferably a human. The disease detected is mammary,
 XX bladder, renal, urinary tract, ovarian, uterine, cervical, endometrial,
 XX vaginal, vulval, prostate, liver, lung, skin, thyroid, pancreatic,
 XX testicular, brain, head and neck, mesodermal, gallbladder, rectal,
 XX duodenal, jejunal, ileal, gastric, pancreatic duct, liver duct, gastric
 XX mucosa, gallbladder epithelium, small intestinal mucosa, colorectal
 XX mucosa, pancreatic duct epithelium or liver duct epithelium
 XX CC preneoplastic/neoplastic disease. AAI16540 to AAI16617 and AAY53228 to
 XX CC AAY53245 represent sequences used in the exemplification of the present
 XX invention

XX Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 3; Length 1522;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCCGGC 60
 DB 1 ACAGTCAGCCGATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCCGGC 60
 QY 61 CCTGCTCCAGGCTCACTGTGCACTGTGCTGTCACTGTGCTTGTGATGCTGTCAT 120
 DB 61 CCTGCTCCAGGCTCACTGTGCACTGTGCTGTCACTGTGCTTGTGATGCTGTCAT 120
 QY 121 CCCGAGAGGTTGCCCGGATGAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
 DB 121 CCCGAGAGGTTGCCCGGATGAGAGATTCCTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
 QY 181 GATGACCACTGAGGCGAGAGAGATTCGCAAGTGAAGAGATTCACCCAGAGAGAGAT 240
 DB 181 GATGACCACTGAGGCGAGAGAGATTCGCAAGTGAAGAGATTCACCCAGAGAGAGAT 240

QY 241 CCACCCGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300
 DB 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300
 QY 301 GAAATTAACTTAATCAGAGAGAGGCTCCCTGAAGTGAAGATCTACCTACTGTT 360
 DB 301 GAAATTAACTTAATCAGAGAGAGGCTCCCTGAAGTGAAGATCTACCTACTGTT 360
 QY 361 GAGGCTCCGAGAGATCTCAAGAACCCCGAGATTAATGCCCCACAGGACAAAGAGGAGT 420
 DB 361 GAGGCTCCGAGAGATCTCAAGAACCCCGAGATTAATGCCCCACAGGACAAAGAGGAGT 420
 QY 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCTCCGAGGCTGCTCCAGGCTGCG 480
 DB 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCTCCGAGGCTGCTCCAGGCTGCG 480
 QY 481 GCGGGCCGCTTCAGTCCCGGCTGATATCGCCGCCAGCTGCGGCTTCTGCGCGGC 540
 DB 481 GCGGGCCGCTTCAGTCCCGGCTGATATCGCCGCCAGCTGCGGCTTCTGCGCGGC 540
 QY 541 CTGCGCCCTTGAAACTCTGAGGCTTCCAGCTCCGCGCTCCAGAACTGCGGCTGCGC 600
 DB 541 CTGCGCCCTTGAAACTCTGAGGCTTCCAGCTCCGCGCTCCAGAACTGCGGCTGCGC 600
 QY 601 AACAAATGACAGATGATGACATGACCCCTGCTGAGATGAGATGAGTCTGAGGCTCC 660
 DB 601 AACAAATGACAGATGATGACATGACCCCTGCTGAGATGAGATGAGTCTGAGGCTCC 660
 QY 661 GGGCGGAGTACCGGCTCTGAGGCTGATCTGCACTGGGGGCTGCAAGTCTGCGGCG 720
 DB 661 GGGCGGAGTACCGGCTCTGAGGCTGATCTGCACTGGGGGCTGCAAGTCTGCGGCG 720
 QY 721 TGGAGACACATGATGAGAGGCAAGCTTTCCTGCGGAGATCAAGTGTTCACCTGAC 780
 DB 721 TGGAGACACATGATGAGAGGCAAGCTTTCCTGCGGAGATCAAGTGTTCACCTGAC 780
 QY 781 ACCGCTTTCAGAGATGACAGAGGCTTGGGGGCTGGGGGCTGGGCTGGTGGGC 840
 DB 781 ACCGCTTTCAGAGATGACAGAGGCTTGGGGGCTGGGGGCTGGGCTGGTGGGC 840
 QY 841 GCTTTTGGAGAGAGGCGCCGAGAGAAACAGTGTCTATGACAGTGTCTGCTGCTG 900
 DB 841 GCTTTTGGAGAGAGGCGCCGAGAGAAACAGTGTCTATGACAGTGTCTGCTGCTG 900
 QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGAGATATCTGACATC 960
 DB 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGAGATATCTGACATC 960
 QY 961 CTGCTCTGATTCAGCCGCTAATTCATATGAGGCTCTGATCAACCGCTCTGT 1020
 DB 961 CTGCTCTGATTCAGCCGCTAATTCATATGAGGCTCTGATCAACCGCTCTGT 1020
 QY 1021 GCCCAGGCTGATCTGATCTGTTTAAACAGAGATGATCTGATGATCTGATGAGCTC 1080
 DB 1021 GCCCAGGCTGATCTGATCTGTTTAAACAGAGATGATCTGATGATCTGATGAGCTC 1080
 QY 1081 CACACCTCTCTGACACCTCTGAGGACCTGAGTACTTGGCTCAACGCTGAACTTCCGA 1140
 DB 1081 CACACCTCTCTGACACCTCTGAGGACCTGAGTACTTGGCTCAACGCTGAACTTCCGA 1140
 QY 1141 GCGAGGAGCTTTAAATGAGGAGATGATGAGGCTCTTCCCTGCTGAGATGAGACAGC 1200
 DB 1141 GCGAGGAGCTTTAAATGAGGAGATGATGAGGCTCTTCCCTGCTGAGATGAGACAGC 1200
 QY 1201 AGTCTCGGCTGCTGAGACAGTCAAGTCAATCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
 DB 1201 AGTCTCGGCTGCTGAGACAGTCAAGTCAATCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
 QY 1261 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
 DB 1261 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
 QY 1321 AGGAGACACAGAGAGGAGAAACAAAGGGGCTGAGACTACCGCCAGAGAGATACCGAG 1380

Db	1321	AGCGACGACAGAAAGGGGAAACCAAAAGGGGGTGTGAGCTTCGCCCCAGCAGAGATGACCGAG	1380		
Qy	1381	ACTGGAGCCTTAGAGGCTGGATCTTGGAGATGTGAGAAAGCCAGCCAGAGGCATCTGAGGG	1440		
Db	1381	ACTGAGGCTTAGAGGCTGGATCTTGGAGAAATGTGAGAAAGCCAGCAGAGGCATCTGAGGG	1440		
Qy	1441	GGAGCGGGTAACTGTCCCTGCTCGTGCATTTATGACCACTTCCTTTTAACTGCGCAAGAATT	1500		
Db	1441	GGAGCGGGTAACTGTCTGCTGCTGCTCATTTATGCACTTCCTTTTAACTGCGCAAGAATT	1500		
Qy	1501	TTTTAAATTAATATTTATTAAT	1522		
Db	1501	TTTTAAATTAATATTTATTAAT	1522		
RESULT 3					
AAAS2459					
ID	AAAS2459 standard; cDNA; 1522 BP.				
XX					
AC	AAAS2459;				
XX					
DT	25-SEP-2000 (first entry)				
XX					
DE	Human MN cDNA.				
XX					
KW	MN protein; tumour associated cell adhesion molecule; oncoprotein;				
KW	proteoglycan domain; PG domain; carbonic anhydrase; CA domain;				
KW	abnormal expression; neoplastic disease; cancer; gene therapy; ss.				
XX					
OS	Homo sapiens.				
XX					
FH	Key	Location/Qualifiers			
FT	CDS	13..1392			
FT		/*tag= a			
FT		/product= "Human MN protein"			
XX					
FN	WO200024913-A2.				
XX					
PD	04-MAY-2000.				
XX					
PF	22-OCT-1999;	99WO-US024879.			
XX					
PR	23-OCT-1998;	98US-00177776.			
XX	23-OCT-1998;	98US-00178115.			
XX					
PA	(FARB) BAYER CORP.				
PA	(VIRO-) INST VIROLOGY.				
PI					
PI	Zavada J, Pastorekova S, Pastorek J;				
DR					
DR	WPI; 2000-350752/30.				
XX	P-PSDB; AAB03005.				
XX					
PT	A molecule which specifically binds to a site on MN protein (oncoprotein)				
PT	and prevents adhesion of vertebrate cells to the protein, useful for				
PT	treating preneoplastic or neoplastic diseases such as cancer.				
XX					
PS	Example 1; Fig 1A-C; 154pp; English.				
XX					
XX					
CC	The invention relates to the inhibition of cell adhesion mediated by the				
CC	MN oncoprotein (also known as the MN/CA IX isoenzyme or the MN/G250				
CC	protein). The MN protein is a tumour-associated adhesion molecule which				
CC	comprises a proteoglycan-like (PG) domain (AAB03017) which contains the				
CC	protein's binding site, and a carbonic anhydrase (CA) domain (AAB03018).				
CC	Abnormal expression of the MN protein is associated with tumorigenicity.				
CC	The invention encompasses molecules (e.g., proteins and peptides) which				
CC	which specifically bind to a site on the MN protein, thereby preventing				
CC	adhesion of vertebrate cells to the protein in a cell adhesion assay. It				
CC	also encompasses MN proteins or MN protein fragments which can be added				
CC	to the extracellular environment to prevent the adhesion of vertebrate				
CC	cells to each other. The invention also relates to the identification of				
CC	the binding site of the MN protein and to a method of identifying a site				

	on an MN protein to which cells adhere, comprising testing a series of overlapping peptides from the protein in a cell adhesion assay. The invention encompasses a vector comprising an expression control sequence operatively linked to a nucleic acid encoding the variable domains of a MN-specific antibody, where the domains are separated by a flexible linker peptide (AAB83035) and the vector inhibits the growth of a vertebrate preneoplastic or neoplastic cell that abnormally expresses MN protein. The invention also encompasses a vector comprising a nucleic acid encoding a cytotoxic protein or peptide operatively linked to the MN gene promoter, which inhibits the growth of a vertebrate preneoplastic or neoplastic cell. Also claimed is a repressor complex that binds to the MN gene promoter (AA52473). MN proteins and peptides, MN-binding proteins and peptides, and expression vectors encoding such proteins and peptides are useful for treating patients with preneoplastic or neoplastic disease (e.g., cancers) associated with or characterized by abnormal MN expression. The present sequence represents cDNA encoding the human MN protein.
SQ	Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;
Query Match	100.0%; Score 1522; DB 3; Length 1522;
Best Local Similarity	100.0%; Pred. No. 0;
Matches 1522; Conservative	0; Mismatches 0; Indels 0; Gaps 0
QY	1 ACAGTAGCCGCATGCGCTCCCTGTGCCCAAGCCCTGGCTCCTCTGTGAATCCGGCC 60
DB	1 AACGTACAGCCGCATGCGCTCCCTGTGCCCAAGCCCTGGCTCCTCTGTGAATCCGGCC 60
QY	61 CCTGTCCAGGCGCTCACGTGTCGCAACTGTGTGTCACATGTCGTCGTTCATGCTTCCAT 120
DB	61 CCTGTCCAGGCGCTCACGTGTCGCAACTGTGTGTCACATGTCGTCGTTCATGCTTCCAT 120
QY	121 CCCAGAGAGTTGCCCGCATCAGAGAGATTCCCCTTGAGAGAGAGCTCTTCTGGGGAA 180
DB	121 CCCAGAGAGTTGCCCGCATCAGAGAGATTCCCCTTGAGAGAGAGCTCTTCTGGGGAA 180
QY	181 GATGACCACCTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAGAAGAGAGAT 240
DB	181 GATGACCACCTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACCAGAAGAGAGAT 240
QY	241 CCACCCGGAGAGAGAGATCTACCTGGAGAGAGAGATTAACCTGGAGAGAGATTTACT 300
DB	241 CCACCCGGAGAGAGAGATCTACCTGGAGAGAGAGATTTACTGGAGAGAGAGATTTACT 300
QY	301 GAAGTTAAGCTTAATCAGAAAGAGGCTCCTGAAGTTAAGAGATCTACCTAGT 360
DB	301 GAAGTTAAGCTTAATCAGAAAGAGGCTCCTGAAGTTAAGAGATCTACCTAGT 360
QY	361 GAGGCTCTGGAGATCTCAAGAACCCCAAGATTAATGCCACAGGGAACAAGAGGGAT 420
DB	361 GAGGCTCTGGAGATCTCAAGAACCCCAAGATTAATGCCACAGGGAACAAGAGGGAT 420
QY	421 GACCAAGATCATTTGGCGTTATGAGGCAACCGGCTTGCCCCGGGTGTCCCAAGCTGC 480
DB	421 GACCAAGATCATTTGGCGTTATGAGGCAACCGGCTTGCCCCGGGTGTCCCAAGCTGC 480
QY	481 GCGGGCGGCTTTCAGTCCCGGTGTAATTCGCCCCCAAGCTGCGCTTCTGCCCCGGCC 540
DB	481 GCGGGCGGCTTTCAGTCCCGGTGTAATTCGCCCCCAAGCTGCGCGCTTCTGCCCCGGCC 540
QY	541 CTGGGCGCCCTGGAATCTCTGGGCTTCAGTCCCGCGCTCCCAAGACTCGCTGGCG 600
DB	541 CTGGGCGCCCTGGAATCTCTGGGCTTCAGTCCCGCGCTCCCAAGACTCGCTGGCG 600
QY	601 AACATGGCCACAGTGTGCACTGACCCCTGCTCTTGGGCTTAGAGATGCTTGGGTCCC 660
DB	601 AACATGGCCACAGTGTGCACTGACCCCTGCTCTTGGGCTTAGAGATGCTTGGGTCCC 660
QY	661 GGCGGGAGATACGGGGCTTCGCACTGATATGCACTGGGGGGGCGCAGGTCGTCGGGG 720
DB	661 GGCGGGAGATACGGGGCTTCGCACTGATATGCACTGGGGGGGCGCAGGTCGTCGGGG 720
QY	721 TCAGAGCACTGTGAAAGGCAACGGTTTTCTCTCCAGAGATCCAAGTGTTCACCTCAGC 780

Db	721	TCGAGACACACTGTGTGAAGGCGACCGTTTCCCTTGCAGATTCACGTGTTCACCTCAGC	780
Qy	781	ACCGCTTTGCGACAGTTGACAGGCGCTTTGGGGCGCCCGGAGAGGCTGGCCGTGTGGCC	840
Db	781	ACCGCTTTGCGACAGTTGACAGGCGCTTTGGGGCGCCCGGAGAGGCTGGCCGTGTGGCC	840
Qy	841	GCCTTTCTGAGAGAGGGCCCGGAGAAAACAGTGCCTATGAGCAGTTGCTGTCCGCTTG	900
Db	841	GCCTTTCTGAGAGAGGGCCCGGAGAAAACAGTGCCTATGAGCAGTTGCTGTCCGCTTG	900
Qy	901	GAAAGAAATCGCTGAGGAAGGCTCAGAGCTCAGGCTCCAGGACTGAGACATATTCGACCTC	960
Db	901	GAAAGAAATCGCTGAGGAAGGCTCAGAGCTCAGGCTCCAGGACTGAGACATATTCGACCTC	960
Qy	961	CTGCCCTCTGACTTTCAGCCGCTACTCTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT	1020
Db	961	CTGCCCTCTGACTTTCAGCCGCTACTCTCCAAATATGAGGGGTCTCTGACTACACCGCCCTGT	1020
Qy	1021	GCCCAAGGTTGATCTGGAATGTGTTTAAACAAGACAGATGATGCTGATGAGAGCTC	1080
Db	1021	GCCCAAGGTTGATCTGGAATGTGTTTAAACAAGATGATGATGCTGATGAGAGCTC	1080
Qy	1081	CACACCCCTCTGGAACCCCTGTGGGGGAACTGGTGACTTCGACTACAGCTGAACCTTCCGA	1140
Db	1081	CACACCCCTCTGGAACCCCTGTGGGGGAACTGGTGACTTCGACTACAGCTGAACCTTCCGA	1140
Qy	1141	GCGACGACAGCTTTGAATGTGGCGAGATGATTGAGGCGCTCTCCCTGCTGAGTGGACAGC	1200
Db	1141	GCGACGACAGCTTTGAATGTGGCGAGATGATTGAGGCGCTCTCCCTGCTGAGTGGACAGC	1200
Qy	1201	AGTCTCTGGGCTGCTGAGCCAGTCCAGCTGAATTCTGCTGGCTGGTGAATCTCTTA	1260
Db	1201	AGTCTCTGGGCTGCTGAGCCAGTCCAGCTGAATTCTGCTGGCTGGTGAATCTCTTA	1260
Qy	1261	GCCCTGTGTTTGGGCTCTCTTTTGTCTGTACACAGCGTGGGTTCTTGTGTCAATGAGA	1320
Db	1261	GCCCTGTGTTTGGGCTCTCTTTTGTCTGTACACAGCGTGGGTTCTTGTGTCAATGAGA	1320
Qy	1321	AGGACGACAGAAAGGGGAAACCAAGGGGGTGTGAGCTACCGGCCAGCAGAGGTAGCCGAG	1380
Db	1321	AGGACGACAGAAAGGGGAAACCAAGGGGGTGTGAGCTACCGGCCAGCAGAGGTAGCCGAG	1380
Qy	1381	ACTGAGGCTTGAAGGCTGGAATCTTGAGAGATGTGAGAAAGCCAGCGCATCTGAGGG	1440
Db	1381	ACTGAGGCTTGAAGGCTGGAATCTTGAGAGATGTGAGAAAGCCAGCGCATCTGAGGG	1440
Qy	1441	GAGCGCGGTAACTGTCTGTCTGTCTCATTTATGCACTTCTTTAACTGCGAAGAAATT	1500
Db	1441	GAGCGCGGTAACTGTCTGTCTGTCTCATTTATGCACTTCTTTAACTGCGAAGAAATT	1500
Qy	1501	TTTTAAATTAATATTATTAAT 1522	
Db	1501	TTTTAAATTAATATTATTAAT 1522	
RESULT 4			
ADG31413			
ID	ADG31413	standard; cDNA, 1522 BP.	
XX	AC	ADG31413;	
XX	DT	26-FEB-2004 (first entry)	
XX	DE	Human MN cDNA SeqID 1.	
XX	KW	human; gene; ss; monoclonal antibody; MN/CA IX; MN; oncogene;	
XX	KW	carbonic anhydrase 9; CA9; MN/CA9; carbonic anhydrase IX; CA IX; MN/G250;	
XX	KW	neoplastic tumour; cytostatic; cancer; tumour therapy;	
XX	OS	Homo sapiens.	

Pt	MO2003100029-A2.
Pd	04-DEC-2003.
Pf	22-FEB-2003; 2003WO-US005136.
Px	23-MAY-2002; 2002US-0383068P.
Px	05-DEC-2002; 2002US-0431499P.
Pa	(FARB) BAYER CORP.
Px	(VIRO-) INST VIROLOGY.
Pi	Pastorek J, Pastorekova S, Zatovicova M, Zavada J, Ortova Gut M;
Dl	WPI; 2004-035136/03.
Dr	P-Psdb; ADG31414.
Pt	New monoclonal antibody generated from MN/CA IX-deficient mice, where the
Pt	antibody binds specifically to human tumor-associated cell adhesion or
Pt	protein MN/CA IX or polypeptide, useful for diagnosing, prognosing or
Pt	treating cancer.
Pt	Disclosure; SEQ ID NO 1; 156bp; English.
Px	This invention relates to a novel monoclonal antibody identified as the
Cc	MN/CA IX specific antibody prepared in knockout mice (CA IX deficient
Cc	mice). Specifically, this antibody is directed towards the MN gene, a
Cc	cellular oncogene known alternatively as carbonic anhydrase 9, CA9 or
Cc	MN/CA9, which encodes the MN protein that is also known as the MN/CA IX
Cc	isoenzyme, carbonic anhydrase IX. CA IX or the MN/GS250 protein. The
Cc	present invention describes the generation of this monoclonal antibody,
Cc	and immunoreactive fragments thereof, which are directed against non-
Cc	immunodominant epitopes on the CA IX extracellular domain. As such, this
Cc	antibody can be useful diagnostically as a marker for preneoplastic/
Cc	neoplastic tumours, immunodetection methods and immunotargeting
Cc	approaches. Accordingly, compositions exhibit cytostatic activity and are
Cc	useful in the diagnosis, prognosis and treatment of various cancers
Cc	including breast, bladder or lung cancer, in tumor therapy and in anti-
Cc	tumor vaccination. This polynucleotide sequence is the human MN cDNA of
Cc	the invention.
Sq	Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;
Qy	Query Match 100.0%; Score 1522; DB 12; Length 1522;
Qy	Best Local Similarity 100.0%; Pred. No. 0;
Qy	Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db	1 ACAGTCACGCCGATGCTCCCTGTGCCTTGGCCTCCCTCTGTGATCCCGGCC 60
Qy	1 ACAGTCACGCCGATGCTCCCTGTGCCTTGGCCTCCCTCTGTGATCCCGGCC 60
Db	61 CTGTGTCAGAGGCTCATCTGTGCAACTGTGTCATCTGTGATGCTGTGCAT 120
Qy	61 CTGTGTCAGAGGCTCATCTGTGCAACTGTGTCATCTGTGATGCTGTGCAT 120
Db	61 CTGTGTCAGAGGCTCATCTGTGCAACTGTGTCATCTGTGATGCTGTGCAT 120
Qy	121 CCCGAGAGTTGCCCGGATGACAGAGATTCCCCTTGGAGAGAGGCTTCTTGAGAA 180
Db	121 CCCGAGAGTTGCCCGGATGACAGAGATTCCCCTTGGAGAGAGGCTTCTTGAGAA 180
Qy	121 CCCGAGAGTTGCCCGGATGACAGAGATTCCCCTTGGAGAGAGGCTTCTTGAGAA 180
Db	121 CCCGAGAGTTGCCCGGATGACAGAGATTCCCCTTGGAGAGAGGCTTCTTGAGAA 180
Qy	181 GATGACCACCTGGGGAGAGAGATCTGCCCCAGTAGAGATTCAACCAGAGAGAGAT 240
Db	181 GATGACCACCTGGGGAGAGAGATCTGCCCCAGTAGAGATTCAACCAGAGAGAGAT 240
Qy	181 GATGACCACCTGGGGAGAGAGATCTGCCCCAGTAGAGATTCAACCAGAGAGAGAT 240
Db	181 GATGACCACCTGGGGAGAGAGATCTGCCCCAGTAGAGATTCAACCAGAGAGAGAT 240
Qy	241 CCACCCGGAGAGAGATCTACCTGTGAAGAGATCTAACCAGAGAGAGATCTACT 300
Db	241 CCACCCGGAGAGAGATCTACCTGTGAAGAGATCTAACCAGAGAGAGATCTACT 300
Qy	241 CCACCCGGAGAGAGATCTACCTGTGAAGAGATCTAACCAGAGAGAGATCTACT 300
Db	241 CCACCCGGAGAGAGATCTACCTGTGAAGAGATCTAACCAGAGAGAGATCTACT 300
Qy	301 GAAGTTAAGCTTAATCAGAAGAGAGGCTCCCTGAAGTTAAGAGATCTACTGTT 360
Db	301 GAAGTTAAGCTTAATCAGAAGAGAGGCTCCCTGAAGTTAAGAGATCTACTGTT 360
Qy	301 GAAGTTAAGCTTAATCAGAAGAGAGGCTCCCTGAAGTTAAGAGATCTACTGTT 360
Db	301 GAAGTTAAGCTTAATCAGAAGAGAGGCTCCCTGAAGTTAAGAGATCTACTGTT 360
Qy	361 GAGGCTCTTGAGATCTCAAGAACCCAGATAATATGCCCACAGGAGCAAGAGAGGAT 420
Db	361 GAGGCTCTTGAGATCTCAAGAACCCAGATAATATGCCCACAGGAGCAAGAGAGGAT 420
Qy	361 GAGGCTCTTGAGATCTCAAGAACCCAGATAATATGCCCACAGGAGCAAGAGAGGAT 420

```
Db 361 GAGGCTCTGAGATCTCTAAGAACCCAGAAATATGCCACAGGAGCAAAAGAGGAT 420
Qy 421 GACCAAGATCATTTGGGCTATGAGAGCGACCGGCTTGCCCGGGTGTCCCAAGCTTCG 480
Db 421 GACCAAGATCATTTGGGCTATGAGAGCGACCGGCTTGCCCGGGTGTCCCAAGCTTCG 480
Qy 481 GGGGGGCGGCTTCAAGTCCCCGGGTGATATCCGGCCCACTGGCGGCTTTCGCGCGGC 540
Db 481 GGGGGGCGGCTTCAAGTCCCCGGGTGATATCCGGCCCACTGGCGGCTTTCGCGCGGC 540
Qy 541 CTGCGCGCCCTTGAACTCTCTGAGCTTCAGCTCCCGCGCTCCAGAACTGGCGCTGCGC 600
Db 541 CTGCGCGCCCTTGAACTCTCTGAGCTTCAGCTCCCGCGCTCCAGAACTGGCGCTGCGC 600
Qy 601 AACCAATGGCCCAAGTGTGCACTGACCTGCTCTCTGGGCTAGAGATGGCTCTGGGTCCTC 660
Db 601 AACCAATGGCCCAAGTGTGCACTGACCTGCTCTCTGGGCTAGAGATGGCTCTGGGTCCTC 660
Qy 661 GGGCGGGAGTACCGGGCTCTGACAGCTGACCTGCACTGGGGGGCTGACAGTGTCCGGGC 720
Db 661 GGGCGGGAGTACCGGGCTCTGACAGCTGACCTGCACTGGGGGGCTGACAGTGTCCGGGC 720
Qy 721 TCGAGACACACTGTGAGAGGCAACCGTTTCCCTGCGAGATCCAGCTGTTCACTCAAGC 780
Db 721 TCGAGACACACTGTGAGAGGCAACCGTTTCCCTGCGAGATCCAGCTGTTCACTCAAGC 780
Qy 781 ACCGCTTTTGGCCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGAGGCTTGGCTGTGGCC 840
Db 781 ACCGCTTTTGGCCAGAGTTGACAGAGGCTTGGGGCGCCCGGAGAGGCTTGGCTGTGGCC 840
Qy 841 GCGTTTCTGAGAGAGGGCCCGGAGAAACAGTGCCTATGAGCAAGTTGCTGTCTGCGCTTG 900
Db 841 GCGTTTCTGAGAGAGGGCCCGGAGAAACAGTGCCTATGAGCAAGTTGCTGTCTGCGCTTG 900
Qy 901 GAAAGAAATCGTGAAGAGGCTCAGAGACTCAGTCCAGGACTGAGCACTATCTGCATCTC 960
Db 901 GAAAGAAATCGTGAAGAGGCTCAGAGACTCAGTCCAGGACTGAGCACTATCTGCATCTC 960
Qy 961 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGGCTGT 1020
Db 961 CTGCGCTCTGACTTCAAGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGGCTGT 1020
Qy 1021 GCCAGAGGTGTATCTGACTGTGTTTAAACAGACAGTATCTGAGTCTAAGCAGCTC 1080
Db 1021 GCCAGAGGTGTATCTGACTGTGTTTAAACAGACAGTATCTGAGTCTAAGCAGCTC 1080
Qy 1081 CACACCTCTTCTGACACCTCTGTTGGGAGCCTGTTGACTCTCGGCTACAGTGAATCTTCGA 1140
Db 1081 CACACCTCTCTGACACCTCTGTTGGGAGCCTGTTGACTCTCGGCTACAGTGAATCTTCGA 1140
Qy 1141 GCGAGCGAGCCTTTGAATGGGCGAGTGAATGAGGCTCTCTTCCGCTGAGTGAAGCAGC 1200
Db 1141 GCGAGCGAGCCTTTGAATGGGCGAGTGAATGAGGCTCTCTTCCGCTGAGTGAAGCAGC 1200
Qy 1201 AGTCTCTGGGCTGTGAGCAGTCAAGTGAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
Db 1201 AGTCTCTGGGCTGTGAGCAGTCAAGTGAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
Qy 1261 GCGCTGCTTTTGGCTCTCTTTTCTGCTGCTCACCAGCGCTGCGCTTCTTGTGCAATGAGA 1320
Db 1261 GCGCTGCTTTTGGCTCTCTTTTCTGCTGCTCACCAGCGCTGCGCTTCTTGTGCAATGAGA 1320
Qy 1321 AGGCGAGCAGAGAGGAGGAGCAAAAGGGGGTGAAGTACCGGCGCAGAGAGGTGAGCCAG 1380
Db 1321 AGGCGAGCAGAGAGGAGGAGCAAAAGGGGGTGAAGTACCGGCGCAGAGAGGTGAGCCAG 1380
Qy 1381 ACTGAGGCTTAGAGGCTGATCTTGAAGATGTGAGAAAGCCAGCCAGAGGATCTGAGAGG 1440
Db 1381 ACTGAGGCTTAGAGGCTGATCTTGAAGATGTGAGAAAGCCAGCCAGAGGATCTGAGAGG 1440
Qy 1441 GAGAGCGGTAACTGTCTCTGCTCATTTATGCACTTCTTTTAACTGCCAGAAATTT 1500
Db 1441 GAGAGCGGTAACTGTCTCTGCTCATTTATGCACTTCTTTTAACTGCCAGAAATTT 1500
```

```
Qy 1501 TTTTAAATTAATTTTAAAT 1522
Db 1501 TTTTAAATTAATTTTAAAT 1522

RESULT 5
ID ADK41803 standard; DNA, 1522 BP.
XX
XX ADK41803;
XX
XX 06-MAY-2004 (first entry)
XX
XX Human MN gene sequence Seg1D1.
XX
XX carbonic anhydrase IX; CA IX; precancerous cell; MN; cancerous cell;
XX human; vertebrate; cytostatic; vaccine; gene therapy;
XX renal cell carcinoma; breast cancer; colorectal cancer; ds; gene.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 13..1392
XX FT /*tag=a
XX FT /product="Human MN protein"
XX
XX WO200405348-A1.
XX
XX 15-JAN-2004.
XX
XX 22-FEB-2003; 2003WO-US005137.
XX
XX 23-MAY-2002; 2002US-0383068P.
XX PR 05-DEC-2002; 2002US-0431499P.
XX
XX (FARB ) BAYER CORP.
XX (VIRO-) INST VIROLOGY.
XX
XX Zavada J, Pastorekova S, Pastorek J, Zavadvova Z;
XX
XX MPI; 2004-083500/08.
XX DR P-PSDB; ADK41804.
XX
XX New soluble form of the carbonic anhydrase IX (CA IX) protein for
XX screening, diagnosing or prognosing diseases associated with abnormal
XX expression of CA IX protein, e.g. renal cell carcinoma, breast cancer or
XX colorectal cancer.
XX
XX Disclosure; SEQ ID NO 1; 159pp; English.
XX
XX This invention relates to a novel soluble form of the carbonic anhydrase
XX IX (CA IX) (or MN) protein or CA IX polypeptide which is released from
XX precancerous and/or cancerous cells of a vertebrate into a body fluid.
XX The invention may be useful for the development of compounds with a
XX cytosolic activity or a vaccine whilst the disclosed sequences may be
XX used for gene therapy. The protein and method are useful for screening,
XX diagnosing or prognosing diseases associated with abnormal expression of
XX carbonic anhydrase IX protein, such as precancerous and cancerous
XX diseases like renal cell carcinoma, breast cancer or colorectal cancer.
XX The monoclonal antibody may also be used for treating or preventing
XX precancerous and cancerous diseases. The present sequence is that of the
XX gene which encodes the human MN protein of the invention.
XX
XX Sequence 1522 BP; 297 A; 458 C; 453 G; 314 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 1522; DB 12; Length 1522;
XX Best Local Similarity 100.0%; Pred. No. 0;
XX Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTCAAGCGGATGCTCCCTGTGCGCCAGCCCTGCTCCTCTGTGATCCGAGCC 60
Db 1 ACAGTCAAGCGGATGCTCCCTGTGCGCCAGCCCTGCTCCTCTGTGATCCGAGCC 60
```

QY 61 CCTGCTCAGGCTCACTGTCGAACTGCTGTCATCTGCTGCTTCTGATGCTGTCAT 120
DB 61 CTTGCTCAGGCTCACTGTCGAACTGCTGTCATCTGCTGCTTCTGATGCTGTCAT 120
QY 121 CCCCAAGGTTGCCCCGAGTGCAGAGAGATTTCCCTTGGAGAGAGCTTTCTGGAGAA 180
DB 121 CCCCAAGGTTGCCCCGAGTGCAGAGAGATTTCCCTTGGAGAGAGCTTTCTGGAGAA 180
QY 181 GATGACCCCTGGGCGAGAGAGATCTGCCAGTGAAGAGAGATTTCAACCCAGAGAGAGAT 240
DB 181 GATGACCCCTGGGCGAGAGAGATCTGCCAGTGAAGAGAGATTTCAACCCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
QY 301 GAAATTAAAGCTTAATCAGAGAGAGAGCTCCCTGAGATTAGAGATCTACCTACTGTT 360
DB 301 GAAATTAAAGCTTAATCAGAGAGAGAGCTCCCTGAGATTAGAGATCTACCTACTGTT 360
QY 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAGATTAATGCCAGAGAGAGAGAGAT 420
DB 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAGATTAATGCCAGAGAGAGAGAGAT 420
QY 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCTGGCCCGGGTGTCCCAAGCTGC 480
DB 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCCGCTGGCCCGGGTGTCCCAAGCTGC 480
QY 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTGCGCTTCTGACCGGCG 540
DB 481 GCGGCGCGCTTCCAGTCCCGGCTGATATCCGCCCCAGCTGCGCTTCTGACCGGCG 540
QY 541 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGGCGCTGGC 600
DB 541 CTGCGCCCCCTGGAATCTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGGCGCTGGC 600
QY 601 AACCAATGAGCAGATGTCGAACTGACCTGACCTGCTGCTGAGATGAGATGCTGAGGTC 660
DB 601 AACCAATGAGCAGATGTCGAACTGACCTGACCTGCTGCTGAGATGAGATGCTGAGGTC 660
QY 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGGGAGGCTGCAAGTGTCTCCGAGC 720
DB 661 GGGCGGAGTACCGGCTCTGAGCTGATCTGCACTGGGAGGCTGCAAGTGTCTCCGAGC 720
QY 721 TCGGAGCACACTGTGAGAGGCCACCGTTTCCCTGCCAGATCACTGCTTCACTCAGC 780
DB 721 TCGGAGCACACTGTGAGAGGCCACCGTTTCCCTGCCAGATCACTGCTTCACTCAGC 780
QY 781 ACCGCTTTGCGAGAGTTGACGAGGCTTGGGGCGCCCGGAGGCTTGGCCGCTTGGGCG 840
DB 781 ACCGCTTTGCGAGAGTTGACGAGGCTTGGGGCGCCCGGAGGCTTGGCCGCTTGGGCG 840
QY 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCAGTTGCTGCTCGCTTG 900
DB 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCAGTTGCTGCTCGCTTG 900
QY 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCTCCAGACTGAGCAATATCTGACTC 960
DB 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCTCCAGACTGAGCAATATCTGACTC 960
QY 961 CTGCTCTGACTTCAAGCGGCTACTTCCAAATAGAGGCTTCTGACTACACCGCCCTGT 1020
DB 961 CTGCTCTGACTTCAAGCGGCTACTTCCAAATAGAGGCTTCTGACTACACCGCCCTGT 1020
QY 1021 GCCCAGGCTGATCTGAGCTGTGTTAAACAGACAGTATGCTGAGTCTTAAGCAGCTC 1080
DB 1021 GCCCAGGCTGATCTGAGCTGTGTTAAACAGACAGTATGCTGAGTCTTAAGCAGCTC 1080
QY 1081 CACACCTTCTGACACCTCTGAGGAGCTTGTGACTCTTGGCTACAGCTTAACTTCCGA 1140
DB 1081 CACACCTTCTGACACCTCTGAGGAGCTTGTGACTCTTGGCTACAGCTTAACTTCCGA 1140

QY 1141 GCGAGCAGCTTTGATATGCGAGATGATTTAGAGGCTCTTCCCTGCTGAGTGCACAC 1200
DB 1141 GCGAGCAGCTTTGATATGCGAGATGATTTAGAGGCTCTTCCCTGCTGAGTGCACAC 1200
QY 1201 AGTCTCGGCTGCTGAGCAGTCCAGTGAATTTCTGCTGCTGCTGCTGCTGATCTTA 1260
DB 1201 AGTCTCGGCTGCTGAGCAGTCCAGTGAATTTCTGCTGCTGCTGCTGCTGATCTTA 1260
QY 1261 GCGCTGTTTTGGGCTCTTTTGTGTCACACAGGCTGCGGTTCTTGTGAGATGAGA 1320
DB 1261 GCGCTGTTTTGGGCTCTTTTGTGTCACACAGGCTGCGGTTCTTGTGAGATGAGA 1320
QY 1321 AGCAGCACAAGAGGAGAACCAAGGAGGCTGAGTACCGCCAGCAGAGGTAAGCCGAG 1380
DB 1321 AGCAGCACAAGAGGAGAACCAAGGAGGCTGAGTACCGCCAGCAGAGGTAAGCCGAG 1380
QY 1381 ACTGAGCTTAGAGGCTGATTTTGAAGATGTGAGAACCCAGCAGAGGCACTTGAGGG 1440
DB 1381 ACTGAGCTTAGAGGCTGATTTTGAAGATGTGAGAACCCAGCAGAGGCACTTGAGGG 1440
QY 1441 GAGCGCGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 GAGCGCGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 TTTTAAATTAATATTATTAAT 1522
DB 1501 TTTTAAATTAATATTATTAAT 1522

RESULT 6
ABL64779
ID ABL64779 standard; DNA; 1552 BP.
XX
AC ABL64779;
XX
DT 15-MAY-2002 (first entry)
XX
DE Lung cancer related gene sequence SEQ ID NO:3116.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytosolic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
KW gene; de.
XX
OS Homo sapiens.
XX
PN WO200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US010838.
XX
PR 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 22-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.

PA (AVAL-) AVALON PHARM.

PI	Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S,
PI	Soppet DR, Weaver Z;

DR WPI; 2002-188264/24.

Pr Screening for anti-neoplastic agent involves exposing cells to a chemical
Pr agent to be tested for anti-neoplastic activity, and determining a change
Pr in expression of a gene of a signature gene set.

PS Claim 1; SEQ ID NO 3753; 44pp; English.

CC The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in (I)
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytoskeletal
CC activity and can be used in gene therapy. M1 can be used for screening
CC anti-neoplastic agent, and can be used for producing a product which is
CC the data collected with respect to the anti-neoplastic agent as a result
CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophagaeal, ovarian, kidney,
CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilms
CC tumour

SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;

Query Match	100.0%	Score 1522	DB 6	Length 1552
Best Local Similarity	100.0%	Pred. No. 0		
Matches 1522, Conservative	0	Mismatches	0	Gaps 0

QY	1	ACAGTCAAGCCGATGGCTCCCTGTGCCCCAGCCCTTGCTCCTCTGTGATCCGGCC	60
Db	31	ACAGTCAAGCCGATGGCTCCCTGTGCCCCAGCCCTTGCTCCTCTGTGATCCGGCC	90
QY	61	CCTGTCAGAGCTCACTGTGCACTGTCGTGTCACTGCTGTTGANTGCTTGCAT	120
Db	91	CCTGTCAGAGCTCACTGTGCACTGTCGTGTCACTGCTGTTGANTGCTTGCAT	150
QY	121	CCCCAGAGGTTGCCCCGATGCAAGAGATTCCCCCTTGAGAGAGGCTCTTGTGGGAA	180
Db	151	CCCCAGAGGTTGCCCCGATGCAAGAGATTCCCCCTTGAGAGAGGCTCTTGTGGGAA	210
QY	181	GATGACCACTGGGCGAGAGAGATCTGCCAATGAAAGAGATTCAACCAAGAGAGAT	240
Db	211	GATGACCACTGGGCGAGAGAGATCTGCCAATGAAAGAGATTCAACCAAGAGAGAT	270
QY	241	CCACCCGGAAGAGAGATCTACCTGTGAGAGAGAGATCTACCTGTGAGAGAGATCTACCT	300
Db	271	CCACCCGGAAGAGAGATCTACCTGTGAGAGAGAGATCTACCTGTGAGAGAGATCTACCT	330
QY	301	GAGTTAAGCCTAATCAAGAGAGGGCTCCGTAATTTAGAGATCTAAGCTAATGTT	360
Db	331	GAGTTAAGCCTAATCAAGAGAGGGCTCCGTAATTTAGAGATCTAAGCTAATGTT	390
QY	361	GAGGCTCCTGGAGATCTCAAGAACCCCAAGATTATGCCCCAGAGGCAAAAGAGGGAT	420
Db	391	GAGGCTCCTGGAGATCTCTCAAGAACCCCAAGATTATGCCCAAGGCAAAAGAGGGAT	450
QY	421	GACCAAGTCAATTGCGCTATGAGAGCGACCCGCTTGACCCTCGAGTGTCCCAAGCTGC	480
Db	451	GACCAAGTCAATTGCGCTATGAGAGCGACCCGCTTGACCCTCGAGTGTCCCAAGCTGC	510
QY	481	GCGGGCGCCTTCAATCCCCGGTGAATATCCGCCCCCACTGGCGGCTTTTCGCCGGCC	540
Db	511	GCGGGCGCCTTCAATCCCCGGTGAATATCCGCCCCCACTGGCGGCTTTTCGCCGGCC	570

QY	5414	CTGGGCCCCCTGGAACTCCTCGGGCTTCAGAGCTCCGCGGCTCCCAAGACTGGCGCTGGCG	600
Db	571	CTGGCCCCCTGGAACTCCTGGAGCTTCAGAGCTCCGCGGCTCCCAAGACTGGCGCTGGCG	630
QY	601	AACAATGGGCACAGAGTGTGCAACTGACCCGAGCTCTCGGGCTTAGAGATGGACTCTGGAGTCC	660
Db	631	AACAATGGGCACAGAGTGTGCAACTGACCCGAGCTCTCGGGCTTAGAGATGGACTCTGGAGTCC	690
QY	661	GGGGCGGAGTACCGGGCTCTGCAAGCTGACATCTGCACTGGGGGGCTGACAGTCTGTCGGGC	720
Db	691	GGGGCGGAGTACCGGGCTCTGCAAGCTGACATCTGCACTGGGGGGCTGACAGTCTGTCGGGC	750
QY	721	TGGAGACACACTGTGGAGAGGGCAACGGTTTCCCTGCAGCAATCCAGTGGTTTCACTCAGC	780
Db	751	TGGAGACACACTGTGGAGAGGGCAACGGTTTCCCTGCAGCAATCCAGTGGTTTCACTCAGC	810
QY	781	ACCGGCTTTGCCAGAGTTTGAACGAGGGCTTTGGGGGGCCCGGGAGGCGCTGGCCGGTGGGCC	840
Db	811	ACCGGCTTTGCCAGAGTTTGAACGAGGGCTTTGGGGGGCCCGGGAGGCGCTGGCCGGTGGGCC	870
QY	841	GCGCTTTCTGGAGAGAGGGCCCGGAGAGAAAAGTGGCTTAGAGCAGTTTGTCTGCTGCTTG	900
Db	871	GCGCTTTCTGGAGAGAGGGCCCGGAGAGAAAAGTGGCTTAGAGCAGTTTGTCTGCTGCTTG	930
QY	901	GAAGAAATGCGTGAAGAGAGGCTCAGAGACTAGGTCCAGAGACTGGACAATCTGACATC	960
Db	931	GAAGAAATGCGTGAAGAGAGGCTCAGAGACTAGGTCCAGAGACTGGACAATCTGACATC	990
QY	961	CTGGCCTCTGACTTACGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGGCTGT	1020
Db	991	CTGGCCTCTGACTTACGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGGCTGT	1050
QY	1021	GCGCAGGGGTGATCTGGAATGTGTGTTTAAACGACAGTATGTGTAGTGTCTAAGACGCTC	1080
Db	1051	GCGCAGGGGTGATCTGGAATGTGTGTTTAAACGACAGTATGTGTAGTGTCTAAGACGCTC	1110
QY	1081	CACACCTCTCTGACACACCCTGTGGGGACCTGTGTGACTCTCGGCTACAGCTGAACCTTCCGA	1140
Db	1111	CACACCTCTCTGACACACCCTGTGTGGGGACCTGTGTGACTCTCGGCTACAGCTGAACCTTCCGA	1170
QY	1141	GCGACGACGACTTTGAAATGGGAGAGTATGAGGCGCTCTCTGCTGCTGAGTGAACAGC	1200
Db	1171	GCGACGACGACTTTGAAATGGGAGAGTATGAGGCGCTCTCTGCTGCTGAGTGAACAGC	1230
QY	1201	AGTCTTCGGGCTGTGAGGACAGTCCAGCTGAATTTCTGCTGTGGCTGTGTGTGACATCCGA	1260
Db	1231	AGTCTTCGGGCTGTGAGGACAGTCCAGCTGAATTTCTGCTGTGGCTGTGTGTGACATCCGA	1290
QY	1261	GCGCTGTGTTTGGGCTCCCTTTTGTCTGTCAACAGGCTGAGCGTTCTTTGTGAGATGAGA	1320
Db	1291	GCGCTGTGTTTGGGCTCCCTTTTGTCTGTCAACAGGCTGAGCGTTCTTTGTGAGATGAGA	1350
QY	1321	AGGACGACACAGAAAGGGGAAACAAAGGGGGTGTGAGCTACCGCCACAGACAGTATGCGGAG	1380
Db	1351	AGGACGACACAGAAAGGGGAAACAAAGGGGGTGTGAGCTACCGCCACAGACAGTATGCGGAG	1410
QY	1381	ACTGAGGCTTAGAGGCTGTGATTTTGGAGAAATGTGAGAGCCAGCCAGAGAGCAATCTGAGGG	1440
Db	1411	ACTGAGGCTTAGAGGCTGTGATTTTGGAGAAATGTGAGAGCCAGCCAGAGAGCAATCTGAGGG	1470
QY	1441	GGAGCGGTTAACTGTCTGTCTCTGTCTCAATTATGCACTTCCTTTTAACTGCCAAGAAATT	1500
Db	1471	GGAGCGGTTAACTGTCTGTCTGTCTCTCAATTATGCACTTCCTTTTAACTGCCAAGAAATT	1530
QY	1501	TTTTTAAATTAATATTATTAAT 1522	
Db	1531	TTTTTAAATTAATATTATTAAT 1552	

RESULT 9
ABL68346
ID ABL68346 standard; DNA; 1552 BP
XX

AC	ABL68346;	
XX		
DT	15-MAY-2002	(first entry)
DE	Kidney cancer related gene sequence SEQ ID NO:6683.	
XX		
XX	Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;	
KW	stomach; lung; prostate; pancreas; carcinoma; adenocarcinoma;	
KW	cytotoxicity; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;	
KW	gene; ds.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200194629-A2.	
XX		
PD	13-DEC-2001.	
XX		
PF	30-MAY-2001; 2001WO-US010838.	
XX		
PR	05-JUN-2000; 2000US-0209473P.	
PR	05-JUN-2000; 2000US-0209531P.	
PR	18-SEP-2000; 2000US-0233133P.	
PR	18-SEP-2000; 2000US-0233617P.	
PR	20-SEP-2000; 2000US-0234009P.	
PR	20-SEP-2000; 2000US-0234034P.	
PR	20-SEP-2000; 2000US-0234052P.	
PR	22-SEP-2000; 2000US-0234509P.	
PR	22-SEP-2000; 2000US-0234567P.	
PR	25-SEP-2000; 2000US-0234923P.	
PR	25-SEP-2000; 2000US-0234924P.	
PR	25-SEP-2000; 2000US-0235077P.	
PR	25-SEP-2000; 2000US-0235082P.	
PR	25-SEP-2000; 2000US-0235134P.	
PR	25-SEP-2000; 2000US-0235280P.	
PR	26-SEP-2000; 2000US-0235637P.	
PR	26-SEP-2000; 2000US-0235638P.	
PR	27-SEP-2000; 2000US-0235711P.	
PR	27-SEP-2000; 2000US-0235720P.	
PR	27-SEP-2000; 2000US-0235840P.	
PR	27-SEP-2000; 2000US-0235863P.	
PR	28-SEP-2000; 2000US-0236028P.	
PR	28-SEP-2000; 2000US-0236032P.	
PR	28-SEP-2000; 2000US-0236033P.	
PR	28-SEP-2000; 2000US-0236034P.	
PR	28-SEP-2000; 2000US-0236109P.	
PR	28-SEP-2000; 2000US-0236111P.	
PR	28-SEP-2000; 2000US-0236842P.	
PR	29-SEP-2000; 2000US-0236891P.	
PR	02-OCT-2000; 2000US-0237172P.	
PR	02-OCT-2000; 2000US-0237173P.	
PR	02-OCT-2000; 2000US-0237278P.	
PR	02-OCT-2000; 2000US-0237294P.	
PR	02-OCT-2000; 2000US-0237295P.	
PR	02-OCT-2000; 2000US-0237316P.	
PR	03-OCT-2000; 2000US-0237425P.	
PR	03-OCT-2000; 2000US-0237598P.	
PR	03-OCT-2000; 2000US-0237604P.	
PR	03-OCT-2000; 2000US-0237606P.	
PR	03-OCT-2000; 2000US-0237608P.	
PR	01-NOV-2000; 2000US-0244867P.	
PR	01-NOV-2000; 2000US-0245084P.	
XX		
PA	(AVAL-) AVALON PHARM.	
XX		
PI	Young PE, Augustus M, Carter KC, Edner R, Endress G, Horrigan S;	
PI	Soppet DR, Weaver Z;	
XX		
XX	WPI; 2002-188264/24.	
DR		
XX		
XX	Screening for anti-neoplastic agent involves exposing cells to a chemical	
PT	agent to be tested for anti-neoplastic activity, and determining a change	
XX	in expression of a gene of a signature gene set.	

Db 271 CACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
Qy 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGT 360
Db 331 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTACTGT 390
Qy 361 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Db 391 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 450
Qy 421 GAGCAGAGATCTAGGAG 480
Db 451 GAGCAGAGATCTAGGAG 510
Qy 481 GCGGAGCGCTTCCAGTCCCGGAGTGAATCCCGCCAGCTGCGCTTCTGCGCGCC 540
Db 511 GCGGAGCGCTTCCAGTCCCGGAGTGAATCCCGCCAGCTGCGCTTCTGCGCGCC 570
Qy 541 CTGCGCGCTTCCAGTCCCGGAGTGAATCCCGCCAGCTGCGCTTCTGCGCGCC 600
Db 571 CTGCGCGCTTCCAGTCCCGGAGTGAATCCCGCCAGCTGCGCTTCTGCGCGCC 630
Qy 601 AACATAGGCGCAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Db 631 AACATAGGCGCAGTGTGCACTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 690
Qy 661 GGGCGGAGATCCGGGCTCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
Db 691 GGGCGGAGATCCGGGCTCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 750
Qy 721 TGGAGGCACTGTGAG 780
Db 751 TGGAGGCACTGTGAG 810
Qy 781 ACCGCTTTGCGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Db 811 ACCGCTTTGCGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 870
Qy 841 GCGCTTTCTGAG 900
Db 871 GCGCTTTCTGAG 930
Qy 901 GAAAGAAATGCTGAG 960
Db 931 GAAAGAAATGCTGAG 990
Qy 961 CTGCGCTTCTGAG 1020
Db 991 CTGCGCTTCTGAG 1050
Qy 1021 GCGCAGAGAGTTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
Db 1051 GCGCAGAGAGTTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1110
Qy 1081 CACACCTTCTGAG 1140
Db 1111 CACACCTTCTGAG 1170
Qy 1141 GCGCAGAGAGTTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
Db 1171 GCGCAGAGAGTTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1230
Qy 1201 AGTCTCTGAG 1260
Db 1231 AGTCTCTGAG 1290
Qy 1261 GCGCAGAGAGTTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
Db 1291 GCGCAGAGAGTTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1350
Qy 1321 AGGAG 1380

Db 1351 AGGAG 1410
Qy 1381 ACTGAGAGCTGAG 1440
Db 1411 ACTGAGAGCTGAG 1470
Qy 1441 GAG 1500
Db 1471 GAG 1530
Qy 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1552
RESULT 11
ABX76124
ID ABX76124 standard; DNA, 1552 BP.
XX
AC ABX76124;
XX
DT 02-APR-2003 (first entry)
XX
DE Lung cancer-associated polynucleotide #1.
XX
KW Lung cancer-associated polynucleotide; gene; ds; cytosolic; emphysema;
XX antiinflammatory; antisthmatic; non-small cell lung cancer; atelectasis;
XX small cell lung cancer; benign lesion; precancerous lesion; bronchitis;
XX chronic obstructive pulmonary disease; hypersensitivity pneumonitis;
XX interstitial pulmonary fibrosis; fibrosis; asthma; bronchiectasis.
OS Unidentified.
XX
XX WO200286443-A2.
XX
XX 31-OCT-2002.
XX
XX 18-APR-2002; 2002WO-US012476.
XX
XX 18-APR-2001; 2001US-0284770P.
XX 10-MAY-2001; 2001US-0290492P.
XX 09-NOV-2001; 2001US-0339245P.
XX 13-NOV-2001; 2001US-0350666P.
XX 29-NOV-2001; 2001US-0334370P.
XX 12-APR-2002; 2002US-0372246P.
XX
XX (BOSB-) BOS BIOTECHNOLOGY INC.
XX
XX Aziz N, Murray R;
XX WPI; 2003-093161/08.
XX P-PBDB; AB056408.
XX
XX Detecting a lung cancer-associated transcript in a cell from a patient
XX for treating lung cancer, by contacting a biological sample from the
XX patient with a polynucleotide that exhibits increased or decreased
XX expression in lung cancer.
XX
XX Claim 22; Page 189; 453p; English.
XX
XX The invention relates to a method for detecting a lung cancer-associated
XX transcript in a cell from a patient, comprising contacting a biological
XX sample from the patient with a polynucleotide that selectively hybridises
XX to a sequence that is at least 80 % identical to a gene that exhibits
XX increased or decreased expression in lung cancer samples. Lung cancer-
XX associated polynucleotides and polypeptides are used for identifying a
XX compound that modulates a lung cancer-associated polypeptide, for
XX inhibiting proliferation of a lung cancer-associated cell to treat lung
XX cancer in a patient and for treating a mammal having lung cancer by
XX administering a modulatory compound identified. The methods are useful
XX for treating lung cancer, such as small cell lung cancer, non-small cell
XX lung cancer or other benign or precancerous lesions, e.g. atelectasis,
XX emphysema, bronchitis, chronic obstructive pulmonary disease, fibrosis,

CC hypersensitivity pneumonitis, interstitial pulmonary fibrosis, asthma and
CC bronchiectasis. The genes, polynucleotides and polypeptides are useful
CC for diagnostic purposes and as targets for screening for therapeutic
CC compounds that modulate lung cancer, such as antibodies. Sequences
CC ABX76124-ABX76474 represent lung cancer-associated polynucleotides of the
CC invention

Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;

Query Match 100.0%; Score 1522; DB 8; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 AAGTCAGCGCGATGCTCCCTGTCGCGCGCGCGCGCGCTCTGTTGATCCCGGCG 60
DB 31 AAGTCAGCGCGATGCTCCCTGTCGCGCGCGCGCGCGCTCTGTTGATCCCGGCG 90
QY 61 CCTGCTCAGGCTCACTGTGCAACTGTCTGTCACTGTCTGTCTGTCTGTCTGTCT 120
DB 91 CCTGCTCAGGCTCACTGTGCAACTGTCTGTCACTGTCTGTCTGTCTGTCTGTCT 150
QY 121 CCCGAGAGTTGCCCCGATGCAAGAGATTCCCTTGGAGAGAGGCTTTCTGGGAA 180
DB 151 CCCGAGAGTTGCCCCGATGCAAGAGATTCCCTTGGAGAGAGGCTTTCTGGGAA 210
QY 181 GATGACCCACTGGGCGAGAGAGATCTGCGCACTGAAAGAGATTCAACCCAGAGAGAGAT 240
DB 211 GATGACCCACTGGGCGAGAGAGATCTGCGCACTGAAAGAGATTCAACCCAGAGAGAGAT 270
QY 241 CCAACCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 271 CCAACCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 330
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAGTTAGAGATCTACTACTGTT 360
DB 331 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAGTTAGAGATCTACTACTGTT 390
QY 361 GAGGCTCCCTGAGATCTCTAAGAACCCCGAGATTAAAGCCCAAGAGAGAGAGAT 420
DB 391 GAGGCTCCCTGAGATCTCTAAGAACCCCGAGATTAAAGCCCAAGAGAGAGAT 450
QY 421 GACCAAGATCATTTGGGCTATGAGAGGCGACCGGCTGGGCTCCCGAGGCTGCG 480
DB 451 GACCAAGATCATTTGGGCTATGAGAGGCGACCGGCTGGGCTCCCGAGGCTGCG 510
QY 481 GCGGCGCGCTTCAAGTCCCGGATGATCCGCGCCAGCTGCGGCTTCTGCGCGGC 540
DB 511 GCGGCGCGCTTCAAGTCCCGGATGATCCGCGCCAGCTGCGGCTTCTGCGCGGC 570
QY 541 CTGCGCGCGCTTCAAGTCCCGGCTTCCAGCTCCCGCGCTCCAGAACTGGGCTGCGC 600
DB 571 CTGCGCGCGCTTCAAGTCCCGGCTTCCAGCTCCCGCGCTCCAGAACTGGGCTGCGC 630
QY 601 AACCAATGCGCAGATGATGCACTGACCTGCGCTCTGGGCTGAGATGCTCTGGGCTCC 660
DB 631 AACCAATGCGCAGATGATGCACTGACCTGCGCTCTGGGCTGAGATGCTCTGGGCTCC 690
QY 661 GGGCGGAGATACCGGCTCTGCACTGATCTGCACTGGGCGGCTGCAAGTCTGCGGCG 720
DB 691 GGGCGGAGATACCGGCTCTGCACTGATCTGCACTGGGCGGCTGCAAGTCTGCGGCG 750
QY 721 TGGAGACACACTGTGGAAGGCGACCGTTTCTGCGGAGATCACTGTGTTCACTGAC 780
DB 751 TGGAGACACACTGTGGAAGGCGACCGTTTCTGCGGAGATCACTGTGTTCACTGAC 810
QY 781 ACCGCTTTGCGCAGAGTTGACAGAGGCTTGGGCGCGCGGAGGCTTGGCGGTTGGCC 840
DB 811 ACCGCTTTGCGCAGAGTTGACAGAGGCTTGGGCGCGCGGAGGCTTGGCGGTTGGCC 870
QY 841 GCTTTCTGAGAGAGGCGCGAGAGAAACAGTGCCTATGACAGTGTCTGCTGCTTG 900
DB 871 GCTTTCTGAGAGAGGCGCGAGAGAAACAGTGCCTATGACAGTGTCTGCTGCTTG 930
```

```
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGTCCCGAGACTGAGATATCTGCACTC 960
DB 931 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGTCCCGAGACTGAGATATCTGCACTC 990
QY 961 CTGCGCTTGAATTGACCGCTACTTCCAAATGAGAGGCTCTGACTACACCGGCTGT 1020
DB 991 CTGCGCTTGAATTGACCGCTACTTCCAAATGAGAGGCTCTGACTACACCGGCTGT 1050
QY 1021 GCCCAGGCTGATCTGAGCTGTGTTTAAACAGACAGTGAATGCTAGTCTAGAGCTTC 1080
DB 1051 GCCCAGGCTGATCTGAGCTGTGTTTAAACAGACAGTGAATGCTAGTCTAGAGCTTC 1110
QY 1081 CACACCTCTCTGACACCTCTGAGGAGACTGAGTGACTCTGCGCTACGCTGAATCTTCCGA 1140
DB 1111 CACACCTCTCTGACACCTCTGAGGAGACTGAGTGACTCTGCGCTACGCTGAATCTTCCGA 1170
QY 1141 GCGAGCGACCTTTGAAATGAGGAGATGATGAGGCTCTCTCTCTGCTGAGATGAGCAAGC 1200
DB 1171 GCGAGCGACCTTTGAAATGAGGAGATGATGAGGCTCTCTCTCTGCTGAGATGAGCAAGC 1230
QY 1201 AGTCTCTGAGGCTGCTGAGCGCACTCCAGCTGAATTCCTGCTGGCTGTGTGACATCTTA 1260
DB 1231 AGTCTCTGAGGCTGCTGAGCGCACTCCAGCTGAATTCCTGCTGGCTGTGTGACATCTTA 1290
QY 1261 GCGCTGATTTTGGGCTCTTTTGTCTGTCACAGAGTGGCGCTTCTGCTGAGATGAGA 1320
DB 1291 GCGCTGATTTTGGGCTCTTTTGTCTGTCACAGAGTGGCGCTTCTGCTGAGATGAGA 1350
QY 1321 AGGCAACACAGAGGAGGAAACCAAGGGGCTGTGACTACCGCCAGACAGAGTAAAGCGAG 1380
DB 1351 AGGCAACACAGAGGAGGAAACCAAGGGGCTGTGACTACCGCCAGACAGAGTAAAGCGAG 1410
QY 1381 ACTGAGCTTGAAGGCTGATTTTGAAGATGTGAAGACCGACGAGAGGACTTGAAGG 1440
DB 1411 ACTGAGCTTGAAGGCTGATTTTGAAGATGTGAAGACCGACGAGAGGACTTGAAGG 1470
QY 1441 GGAGCGGATGATGTCCTGCTGCTGCTCATTTAGCCACTTCTTTAAGTCCAGAAATT 1500
DB 1471 GGAGCGGATGATGTCCTGCTGCTGCTCATTTAGCCACTTCTTTAAGTCCAGAAATT 1530
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAAT 1552
```

RESULT 12
AD89343
ID AD89343 strand; DNA; 1552 BP.
XX
AC AD89343;
XX
DT 11-MAR-2004 (first entry)
XX
DB Cancer detection method related gene #6.
XX
KW ds; cancer; gene expression;
KM estrogen receptor-positive invasive breast cancer.
OS Homo sapiens.
PN W02003078662-A1.
XX
PD 25-SEP-2003.
XX
PF 12-MAR-2003; 2003WO-US007713.
XX
PR 13-MAR-2002; 2002US-0364890P.
XX
PI 18-SEP-2002; 2002US-0412049P.
XX
PA (GENO-) GENOMIC HEALTH INC.
XX
PI Baker JB, Cronin MT, Kiefer MC, Shuk S, Walker MG;
XX

DR MPI; 2003-767536/72.
XX Predicting clinical outcome for a patient diagnosed with cancer comprises
PT determining the expression level of one or more genes, and compared to
XX the amount found in a reference cancer tissue set.
PS Disclosure; SEQ ID NO 291; 198bp; English.
XX
CC The invention relates to a method of predicting clinical outcome for a
CC patient diagnosed with cancer by determining the expression level of one
CC or more genes, or their expression products, selected from p53BP2,
CC cathepsin B, cathepsin L, K167/MiB1, and thymidine kinase in a cancer
CC tissue obtained from the patient, normalized against control gene(s), and
CC compared to the amount found in a reference cancer tissue set. The
CC specification also discloses an array comprising polynucleotides
CC hybridizing to the following genes: FOXM1, PRAME, Bcl2, SKI5, CEGP1, K1-
CC 67, GSTM1, CA9, PR, BRC3, NME1, P27, CCNB1, XIAP, Chk2, CDC25B, IGFBP3,
CC RPS6KB1, Srs, Chk1, ID1, BSR1, p27, CCNB1, XIAP, Chk2, CDC25B, IGFBP3,
CC AK05699, PI3KCA, TGFBR3, BAG1, CYP3A4, BPC6M, VEGFR, p27, hENT1, MISP1,
CC HNF3A, NFKBp65, BCR2, EGFR, TKI, VDR, Contig51037, pENT1, EPHX1, JTA,
CC CDH1, HIF1c, IGFBP3, CTSE, Her2 and DIABLO, immobilized on a solid
CC surface. The methods are useful for predicting clinical outcome for a
CC patient diagnosed with cancer, classifying cancer, and predicting the
CC likelihood of long-term survival of a breast cancer patient, or a patient
CC diagnosed with invasive breast cancer or with estrogen receptor (ER)-
CC positive invasive breast cancer. This sequence corresponds to a gene
CC sequence whose expression is detected by the method of the invention.
XX
SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
Query Match 100.0%; Score 1522; DB 10; Length 1552;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Query 1 ACAAGTACGCGATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCGAGC 60
Db 31 ACAAGTACGCGATGCTCCCTGTCGCCAGCCCTGCTCCCTGTTGATCCGAGC 90
Query 61 CCTGCTCCAGGCTCTCACTGTGCACTGCTGTCATCTGCTCTTGTGATGCTTGCAT 120
Db 91 CCTGCTCCAGGCTCTCACTGTGCACTGCTGTCATCTGCTCTTGTGATGCTTGCAT 150
Query 121 CCCGAGAGGTTGCCCGGATGAGAGGATTCCTGAGAGAGGAGGCTCTTGGAGAA 180
Db 151 CCCGAGAGGTTGCCCGGATGAGAGGATTCCTGAGAGAGGAGGCTCTTGGAGAA 210
Query 181 GATGACCCACTGAGGAGAGGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGAGGAGAGGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAGAT 270
Query 241 CCAACCCGAGAGAGAGATTTACCTGGAGAGAGATCTTACCTGGAGAGAGATCTTACCT 300
Db 271 CCAACCCGAGAGAGAGATTTACCTGGAGAGAGATCTTACCTGGAGAGAGATCTTACCT 330
Query 301 GAAAGTTAAGCTTAATCAGAAGAGAGGCTCCGAAAGTTAGAGATCTTACTCTGT 360
Db 331 GAAAGTTAAGCTTAATCAGAAGAGAGGCTCCGAAAGTTAGAGATCTTACTCTGT 390
Query 361 GAGGCTCTGAGATCTTCAAGAACCCAGATTAATGCCACAGGAGCAAAAGAGAGAT 420
Db 391 GAGGCTCTGAGATCTTCAAGAACCCAGATTAATGCCACAGGAGCAAAAGAGAGAT 450
Query 421 GACCAAGATCATTTGGGCTATGAGAGCGACCCGCTTGAGCCCGGAGTCTCCAGCTTGC 480
Db 451 GACCAAGATCATTTGGGCTATGAGAGCGACCCGCTTGAGCCCGGAGTCTCCAGCTTGC 510
Query 481 GCGGCGCGCTTCAAGTCCCGGATGATTCGCGCCCGGAGCTTCCGCGGAGC 540
Db 511 GCGGCGCGCTTCAAGTCCCGGATGATTCGCGCCCGGAGCTTCCGCGGAGC 570
Query 541 CTGCGCCCGCTGGAATCTCTGGGCTTCCAGCTCCCGCGCTCCAGAACTGGCGCTTGGCG 600
Db 571 CTGCGCCCGCTGGAATCTCTGGGCTTCCAGCTCCCGCGCTCCAGAACTGGCGCTTGGCG 630

Query 601 AACAAATGSCCAAGTGTGCACTGACCTGCTCTGAGGCTAGAGATGCTTGGGTC 660
Db 631 AACAAATGSCCAAGTGTGCACTGACCTGCTCTGAGGCTAGAGATGCTTGGGTC 690
Query 661 GGGGCGGAGTACCGGCTCTGACAGTGCATGCACTGGGGGCTGACAGTCTGCGGAGC 720
Db 691 GGGGCGGAGTACCGGCTCTGACAGTGCATGCACTGGGGGCTGACAGTCTGCGGAGC 750
Query 721 TCGAGCACACTGTGGAAGGACACCGTTTCCCTGCGAGATCAAGTGTTCACCTCAGC 780
Db 751 TCGAGCACACTGTGGAAGGACACCGTTTCCCTGCGAGATCAAGTGTTCACCTCAGC 810
Query 781 ACCGCTTGTGCAAGTGTGACAGAGCTTGGGGGCGCCGGAGAGCTTGGGCTTGGCC 840
Db 811 ACCGCTTGTGCAAGTGTGACAGAGCTTGGGGGCGCCGGAGAGCTTGGGCTTGGCC 870
Query 841 GCGTTTGTGAGAGAGGCGCGGAGAAACAGTGCATATGAGAGTGTGCTGCTGCTTG 900
Db 871 GCGTTTGTGAGAGAGGCGCGGAGAAACAGTGCATATGAGAGTGTGCTGCTGCTTG 930
Query 901 GAAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGCTGAGACATATGCACTC 960
Db 931 GAAAGAAATCGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGCTGAGACATATGCACTC 990
Query 961 CTGCGCTTGTGACTTCAAGCTTCAATATGAGAGGCTTGTGACTTCAACCGCTTGT 1020
Db 991 CTGCGCTTGTGACTTCAAGCTTCAATATGAGAGGCTTGTGACTTCAACCGCTTGT 1050
Query 1021 GCCAGAGGTGATCTGAGACTGTGTTTAAACAGACAGTGAAGTGAAGTGAAGAGCTC 1080
Db 1051 GCCAGAGGTGATCTGAGACTGTGTTTAAACAGACAGTGAAGTGAAGTGAAGAGCTC 1110
Query 1081 CACAACCTCTGTGACACCTGTGAGGACCTGTGATCTCCGCTTACAGCTGAATCTCCGA 1140
Db 1111 CACAACCTCTGTGACACCTGTGAGGACCTGTGATCTCCGCTTACAGCTGAATCTCCGA 1170
Query 1141 GCGAGCAGCCTTGAATGAGCGAGTGAATGAGGCTCTTCCCTGCTGAGTGAAGCAGC 1200
Db 1171 GCGAGCAGCCTTGAATGAGCGAGTGAATGAGGCTCTTCCCTGCTGAGTGAAGCAGC 1230
Query 1201 AGTCTCTGAGGCTGAGAGCAGTCAAGTGAATTCGAGCGGCTGCTGAGTGAATCTCTA 1260
Db 1231 AGTCTCTGAGGCTGAGAGCAGTCAAGTGAATTCGAGCGGCTGCTGAGTGAATCTCTA 1290
Query 1261 GCCCTGTTTTTGGCTCTTCTTGTGCTGACACAGCGTCCGCTTCTTGTGCAAGTGA 1320
Db 1291 GCCCTGTTTTTGGCTCTTCTTGTGCTGACACAGCGTCCGCTTCTTGTGCAAGTGA 1350
Query 1321 AGGCAAGCAGAGAGGAGAACCAAGGGGCTGTGAGCTACCGCCAGAGAGTACCGAG 1380
Db 1351 AGGCAAGCAGAGAGGAGAACCAAGGGGCTGTGAGCTACCGCCAGAGAGTACCGAG 1410
Query 1381 ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAAGAGCCAGCAGAGAGGATCTGAGG 1440
Db 1411 ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAAGAGCCAGCAGAGAGGATCTGAGG 1470
Query 1441 GAGCCCGGTAACTGCTGCTGCTGCTCAATATGCACTTCTTTAACTGCAAGAAAT 1500
Db 1471 GAGCCCGGTAACTGCTGCTGCTGCTCAATATGCACTTCTTTAACTGCAAGAAAT 1530
Query 1501 TTTTAAATTAATTTTAAAT 1522
Db 1531 TTTTAAATTAATTTTAAAT 1552

RESULT 13
ACCT72730
ID ACCT72730 standard; cDNA; 1552 BP.
XX ACCT72730;
XX
XX
DT 09-JUN-2003 (first entry)

XX Human cancer related protein encoding cDNA SEQ ID NO:69.
XX Human, cancer; diagnosis; screening; modulator; leukemia; ischemia;
XX heart disease; atherosclerosis; endometrios; gene; ss.
XX Homo sapiens.
XX MO2003025138-A2.
XX 27-MAR-2003.
XX 17-SEP-2002; 2002WC-US029560.
XX 17-SEP-2001; 2001US-0323469P.
XX 20-SEP-2001; 2001US-0323887P.
XX 13-NOV-2001; 2001US-0350666P.
XX 08-FEB-2002; 2002US-0355145P.
XX 08-FEB-2002; 2002US-0355257P.
XX 12-APR-2002; 2002US-0372246P.
XX (EOSB-) EOS BIOTECHNOLOGY INC.
XX Afar D, Aziz N, Glash KC, Hevezi PA, Mack DH, Wilson KE;
XX Zlotnick A;
XX WPI, 2003-354600/33.
XX P-PSDB; ABR58595.
XX New genes that are up-regulated or down-regulated in cancers, useful as
XX markers for diagnosing e.g. cancer, ischemia or heart diseases, or as
XX therapeutic targets for screening drugs for treating these diseases.
XX Claim 8; Page 662; 767pp; English.
XX The present invention describes an isolated nucleic acid molecule, which
XX comprises the sequence of any of the genes that are up-regulated or down-
XX regulated in specific cancers (e.g. about 1031 genes up-regulated in
XX acute lymphocytic leukemia). ACC72641 to ACC72860 represent cancer in
XX related gene nucleotide sequences which encode the proteins given in
XX ABR58521 to ABR58709. Also described: (1) determining the presence or
XX absence of a pathological cell in a patient; (2) an expression vector
XX comprising a nucleic acid molecule described above; (3) a host cell
XX comprising the vector; (4) an isolated polypeptide, which is encoded by
XX the nucleic acid; (5) an antibody that specifically binds the polypeptide
XX of (4); (6) specifically targeting a compound to a pathological cell in a
XX patient by administering to the patient the antibody above; and (7) a
XX drug screening assay. The nucleic acid is useful as diagnostic markers or
XX therapeutic targets. In particular, the nucleic acid is useful for
XX diagnosing a pathology, e.g. cancer (e.g. cancer of the bone marrow,
XX bladder, brain, breast, cervix, colon/rectum, kidney, lung, ovary,
XX pancreas, prostate, skin and uterus), wounds, ischemia, heart diseases,
XX atherosclerosis and endometrios. The nucleic acid is also useful in
XX drug screening, particularly for identifying agents for treating these
XX pathologies
XX
XX Sequence 1552 BP, 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAGTCAGCGCGATGCTCCCTGTCGCCCAAGCCCTGCTCCTCTGTTGATCCCGGC 60
DB 31 AAGATGAGCGGATGCTCCCTGTCGCCCAAGCCCTGCTCCTCTGTTGATCCCGGC 90
QY 61 CCGTCCGAGGCTCACTGTCGAACCTGCTGTCATCTGCTTGTGATGCTGTCAT 120
DB 91 CCGTCCGAGGCTCACTGTCGAACCTGCTGTCATCTGCTTGTGATGCTGTCAT 150
QY 121 CCCGAGAGGTTGCGCGGATGACAGAGATTCCCTTGGAGAGAGCTCTTCTGGGAA 180
DB 151 CCCGAGAGGTTGCGCGGATGACAGAGATTCCCTTGGAGAGAGCTCTTCTGGGAA 210

QY 181 GATGACCCACTGGGAGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAT 240
DB 211 GATGACCCACTGGGAGAGAGATCTGCCAGTGAAGAGATTCAACCCAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACCT 300
DB 271 CCACCCGAGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACCT 330
QY 301 GAAGTTAAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTGAGATTTACTTACTGT 360
DB 331 GAAGTTAAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTGAGATTTACTTACTGT 390
QY 361 GAGGCTCCGAGATCTTCAAGAACCCGAGTAATAGCCACAGGAGACAAAGAGAGAT 420
DB 391 GAGGCTCCGAGATCTTCAAGAACCCGAGTAATAGCCACAGGAGACAAAGAGAGAT 450
QY 421 GACCAAGATCATTTGCGCTATGAGAGCGACCCGCTGCGCCCGGAGTCCCAAGCTTC 480
DB 451 GACCAAGATCATTTGCGCTATGAGAGCGACCCGCTGCGCCCGGAGTCCCAAGCTTC 510
QY 481 GCGGCGCGCTTCAAGTCCCGGTGATATCGCCGCCAGCTGCGGCTTCTGCGCGGC 540
DB 511 GCGGCGCGCTTCAAGTCCCGGTGATATCGCCGCCAGCTGCGGCTTCTGCGCGGC 570
QY 541 CTGGCGCCCGTGAATCTCGTGGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGCGGC 600
DB 571 CTGGCGCCCGTGAATCTCGTGGCTTCCAGCTCCCGCGCTCCAGAACTGCGCTGCGGC 630
QY 601 AACAAATGACAGATGTCAGTGAACCTGCTCCTGAGCTAGAGATGCTGAGTCC 660
DB 631 AACAAATGACAGATGTCAGTGAACCTGCTCCTGAGCTAGAGATGCTGAGTCC 690
QY 661 GGGCGGAGTACCGGCTCTGCACTGTCATCTGACCTGCGGAGGCTGTCGCGGC 720
DB 691 GGGCGGAGTACCGGCTCTGCACTGTCATCTGACCTGCGGAGGCTGTCGCGGC 750
QY 721 TCGGAGCACATGTCGAGAGGCGACCGTTTCCCTGCGAGATCAGTGTGTCACCTCAGC 780
DB 751 TCGGAGCACATGTCGAGAGGCGACCGTTTCCCTGCGAGATCAGTGTGTCACCTCAGC 810
QY 781 ACCGCTTTGACAGATTGACAGAGGCTTGGGCGCCGCGAGGCTGCGCTGTTGCC 840
DB 811 ACCGCTTTGACAGATTGACAGAGGCTTGGGCGCCGCGAGGCTGCGCTGTTGCC 870
QY 841 GCTTTTGTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGACAGTTGCTGCTGCTTG 900
DB 871 GCTTTTGTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGACAGTTGCTGCTGCTTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGCTCAGTCCGAGCTGAGATCTGACATC 960
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGCTCAGTCCGAGCTGAGATCTGACATC 990
QY 961 CTGCCCTGATCTGACGCGCTACTTCCAAATGAGAGGCTCTCTGACTACACCGCCTGT 1020
DB 991 CTGCCCTGATCTGACGCGCTACTTCCAAATGAGAGGCTCTCTGACTACACCGCCTGT 1050
QY 1021 GCCCAGGCTGATCTGATCTGATGTTTAAACAGACAGTATGCTGATGAGAGCTC 1080
DB 1051 GCCCAGGCTGATCTGATCTGATGTTTAAACAGACAGTATGCTGATGAGAGCTC 1110
QY 1081 CACACCTTCTGACACCTGTTGGGAGCTGTTGACTCTCGGCTTACAGTGAACCTTCCGA 1140
DB 1111 CACACCTTCTGACACCTGTTGGGAGCTGTTGACTCTCGGCTTACAGTGAACCTTCCGA 1170
QY 1141 GCGAGCAGACCTTTGATGAGGAGATGATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
DB 1171 GCGAGCAGACCTTTGATGAGGAGATGATGAGGCTCTTCCCTGCTGAGTGAACAGC 1230
QY 1201 AGTCTTGGGCTGTCGAGCAGTCCAGTGAATTCCTGCTGCTGCTGCTGATCATCTTA 1260
DB 1231 AGTCTTGGGCTGTCGAGCAGTCCAGTGAATTCCTGCTGCTGCTGCTGATCATCTTA 1290

Db 931 GAAGAAATGCTGAGGAAGCTCAGAGCTAGCTCCAGAGCTGACATATCTGCACTC 990
Qy 961 CTGCGCTGATCTGAGCGGCTAATTCCAAATAGAGGGTCTCTGACTACCGCCCTCT 1020
Db 991 CTGCGCTGATCTGAGCGGCTAATTCCAAATAGAGGGTCTCTGACTACCGCCCTCT 1050
Qy 1021 GCCCAGGGTGTATCTGAGCTGTGTTAAACAGACAGATGCTGAGTCTTAAGCAGCTC 1080
Db 1051 GCCCAGGGTGTATCTGAGCTGTGTTAAACAGACAGATGCTGAGTCTTAAGCAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTCGCTACAGTGAATCTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGTGGGAGCTGTGACTCTCGCTACAGTGAATCTCCGA 1170
Qy 1141 GGGAGCGACCTTTGAAATGGGAGATGATGAGGCTCTCTCCCTGCTGAGATGAGCAGC 1200
Db 1171 GGGAGCGACCTTTGAAATGGGAGATGATGAGGCTCTCTCCCTGCTGAGATGAGCAGC 1230
Qy 1201 AGTCTCTGGGCTGCTGAGCGCAGTCCAGTGAATTCCTGCTGGAGTCTGCTGATCTCTA 1260
Db 1231 AGTCTCTGGGCTGCTGAGCGCAGTCCAGTGAATTCCTGCTGGAGTCTGCTGATCTCTA 1290
Qy 1261 GCGCTGTGTTTTGGCTCTCTTTTCTGCTGACCAAGCGTGGCTCTCTGCTGAGATGAGA 1320
Db 1291 GCGCTGTGTTTTGGCTCTCTTTTCTGCTGACCAAGCGTGGCTCTCTGCTGAGATGAGA 1350
Qy 1321 AGGCGACAGAGAGGGGAAACCAAGGGGCTGAGCTTACCGCCAGAGAGTACCGGAG 1380
Db 1351 AGGCGACAGAGAGGGGAAACCAAGGGGCTGAGCTTACCGCCAGAGAGTACCGGAG 1410
Qy 1381 ACTGAGGCTTGAAGGCTGATCTTGAAGATGAGAGACCGACGAGGAGCATCTGAGGG 1440
Db 1411 ACTGAGGCTTGAAGGCTGATCTTGAAGATGAGAGACCGACGAGGAGCATCTGAGGG 1470
Qy 1441 GGAGCGGCTGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
Db 1471 GGAGCGGCTGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1530
Qy 1501 TTTTAAATTAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAATTAAT 1552

RESULT 15
ADN39704
ID ADN39704 standard; cDNA, 1552 BP.
XX
AC ADN39704;
XX
DT 17-JUN-2004 (first entry)
XX
DE Cancer/angiogenesis/fibrosis-related nucleic acid, SEQ ID NO: C76.
XX
KW Human; differential expression; cancer; angiogenic disorder;
KW fibrotic disorder; psoriasis; ischemia; heart disease; atherosclerosis;
KW inflammatory disease; autoimmune disease; scarring; uterine fibroid;
KW retinal neovascularization syndrome; drug screening; drug targeting;
KW wound healing; contraception; cytostatic; cardiant; immunomodulatory;
KW vulnery; gene therapy; vaccine; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003042661-A2.
XX
PD 22-MAY-2003.
XX
PF 13-NOV-2002; 2002WO-US036810.
XX
PR 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.

PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-0355250P.
PR 13-FEB-2002; 2002US-0356714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-0368099P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397755P.
PR 22-JUL-2002; 2002US-0397845P.
PR 09-SEP-2002; 2002US-0409450P.
XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.
XX
PI Afar D, Aziz N, Ginsburg WM, Gish KC, Glynn R, Hevezi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX
DR MPI; 2003-468649/44.
DR F-PSDB; ADN39921.
XX
PT Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
XX a nucleic acid in a biological sample.
XX
PS Claim 8; SEQ ID NO C76; 1385bp; English.
XX
CC The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularization syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a nucleic acid sequence of the invention.
XX
SQ Sequence 1552 BP; 302 A; 471 C; 461 G; 318 T; 0 U; 0 Other;
Query Match 100.0%; Score 1522; DB 11; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ACAGTCAGCGGATGAGTCTCTGAGCCAGCCCTGAGCTCTCTGTTATCCGAGCC 60
Db 31 ACAGTCAGCGGATGAGTCTCTGAGCCAGCCCTGAGCTCTCTGTTATCCGAGCC 90
Qy 61 CCGTCTCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 91 CCGTCTCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 150
Qy 121 CCCGAGAGTGGTCCCGGATGAGAGGATTCCTCTTGGAGAGGCTCTTCTGGGAA 180
Db 151 CCCGAGAGTGGTCCCGGATGAGAGGATTCCTCTTGGAGAGGCTCTTCTGGGAA 210
Qy 181 GATGACCACTGAGGAGAGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 211 GATGACCACTGAGGAGAGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 270
Qy 241 CCACCCGAGAGAGGATCTTACCTGAGAGAGGATCTTACCTGAGAGAGGATCTTACCT 300
Db 271 CCACCCGAGAGAGGATCTTACCTGAGAGAGGATCTTACCTGAGAGAGGATCTTACCT 330

QY 301 GAAGTTAAGCTTAATCAGAAAGAGGGCTCCCTGAAGTTAGAGATCTACTACTGTT 360
DB |||||
DB 331 GAAGTTAAGCTTAATCAGAAAGAGGGCTCCCTGAAGTTAGAGATCTACTACTGTT 390
QY 361 GAGGCTCTGGAGATCTCAGAAACCCAGATATATGCCACAGGGCAAAAGAGGGGAT 420
DB |||||
DB 391 GAGGCTCTGGAGATCTCAGAAACCCAGATATATGCCACAGGGCAAAAGAGGGGAT 450
QY 421 GACCAAGATCATTTGGGCTATGAGAGCGAACCCGCTGGCCCGGGGTCTCCCAAGCTTC 480
DB |||||
DB 451 GACCAAGATCATTTGGGCTATGAGAGCGAACCCGCTGGCCCGGGGTCTCCCAAGCTTC 510
QY 481 GGGGGCGGCTTCCAGTCCCCCGGTGATATCCGCCCCAGTGGCCGCTTTCGCCGGCC 540
DB |||||
DB 511 GCGGGCGGCTTCCAGTCCCCCGGTGATATCCGCCCCAGTGGCCGCTTTCGCCGGCC 570
QY 541 CTGGCGCCCTTGGAATCTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGCGGCTGCGC 600
DB |||||
DB 571 CTGGCGCCCTTGGAATCTCTGGGCTTCCAGCTCCGCGCTCCAGAACTGCGGCTGCGC 630
QY 601 AACCAATGCGCAAGTGTGCAACTGACCTGCTCTGGGCTAGAGATGAGCTCTGGGCTCC 660
DB |||||
DB 631 AACCAATGCGCAAGTGTGCAACTGACCTGCTCTGGGCTAGAGATGAGCTCTGGGCTCC 690
QY 661 GGGCGGGAGTACCGGGCTCTGAGCTGCACTGCACTGGGGGGCTGCAAGTCTGCGGGC 720
DB |||||
DB 691 GGGCGGGAGTACCGGGCTCTGAGCTGCACTGCACTGGGGGGCTGCAAGTCTGCGGGC 750
QY 721 TCGGAGCACACTGTGAGAGGCCACCGTTTCCCTGCCAGATCCACGTGTTCACTCAGC 780
DB |||||
DB 751 TCGGAGCACACTGTGAGAGGCCACCGTTTCCCTGCCAGATCCACGTGTTCACTCAGC 810
QY 781 ACCGCTTTTGGCAGATTTGACAGAGGCTTGGGGGCTCCCGAGAGGCTGGCCGTGGCC 840
DB |||||
DB 811 ACCGCTTTTGGCAGATTTGACAGAGGCTTGGGGGCTCCCGAGAGGCTGGCCGTGGCC 870
QY 841 GCCTTTCTGAGAGAGGGCCCGGAAAGAAACAGTGCTATGAGAGTGTCTGTCTGGCTTG 900
DB |||||
DB 871 GCCTTTCTGAGAGAGGGCCCGGAAAGAAACAGTGCTATGAGAGTGTCTGTCTGGCTTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGCTGAGACATATCTGCACTC 960
DB |||||
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGTCCAGAGCTGAGACATATCTGCACTC 990
QY 961 CTGGCTCTGACTTCAAGCCGCTACTTCCAAATAGAGGGGTCTCTGACTACACCGCCCTGT 1020
DB |||||
DB 991 CTGGCTCTGACTTCAAGCCGCTACTTCCAAATAGAGGGGTCTCTGACTACACCGCCCTGT 1050
QY 1021 GCCAAGGCTGATCTGAGACTGTGTTAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
DB |||||
DB 1051 GCCAAGGCTGATCTGAGACTGTGTTAACAGACAGTATGCTGAGTCTAAGCAGCTC 1110
QY 1081 CACACCTCTGTGACACCTGTGTGGGAGCCTGTGTGACTCTCGGCTACAGCTGAACCTTCCGA 1140
DB |||||
DB 1111 CACACCTCTGTGACACCTGTGTGGGAGCCTGTGTGACTCTCGGCTACAGCTGAACCTTCCGA 1170
QY 1141 GGGAGCGAGCTTTTAATGGGAGAGTATGAGGCTCTTCCCTGCTGAGTGAAGCAGC 1200
DB |||||
DB 1171 GGGAGCGAGCTTTTAATGGGAGAGTATGAGGCTCTTCCCTGCTGAGTGAAGCAGC 1230
QY 1201 AGTCTCTGGGCTGCTGAGCAGTCAAGCTGAATTCCTGCTGGCTGCTGCTGATCTCTA 1260
DB |||||
DB 1231 AGTCTCTGGGCTGCTGAGCAGTCAAGCTGAATTCCTGCTGGCTGCTGCTGATCTCTA 1290
QY 1261 GCTCTGTGTTTTGGCTCTTTTTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
DB |||||
DB 1291 GCTCTGTGTTTTGGCTCTTTTTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1350
QY 1321 AGGCAAGCAGAGAGGGGAAACCAAGGGGGTGAAGCTACCGCCCAAGAGGTAGCCGAG 1380
DB |||||
DB 1351 AGGCAAGCAGAGAGGGGAAACCAAGGGGGTGAAGCTACCGCCCAAGAGGTAGCCGAG 1410
QY 1381 ACTGAGCTTAGAGGCTGATCTTGGAGATGTGAAAGCCAGCCAGAGGCTGAGGG 1440

DB |||||
DB 1411 ACTGAGCTTAGAGGCTGATCTTGGAGATGTGAAAGCCAGAGGCTGAGGG 1470
QY 1441 GGAGCCGGTAATCTGCTGTCTGCTCATTAAGCCACTTCTTTAACTGCGCAAGAAAT 1500
DB |||||
DB 1471 GGAGCCGGTAATCTGCTGTCTGCTCATTAAGCCACTTCTTTAACTGCGCAAGAAAT 1530
QY 1501 TTTTAAATTAATATTATTAAT 1522
DB |||||
DB 1531 TTTTAAATTAATATTATTAAT 1552

Search completed: February 6, 2005, 04:08:57
Job time : 735 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Comphen Ltd.

OW nucleic - nucleic search, using sw model

Run on: February 6, 2005, 03:50:49 ; Search time 154 Seconds
(without alignments)
7024.810 Million cell updates/sec

Title: US-09-967-237A-1

Perfect score: 1522

Sequence: 1 acagcagcagccgacgctcc.....ttaataataattataat 1522

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:
1: /cgn2_6/prodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/prodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/prodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/prodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/prodata/1/ina/PCUS_COMB.seq:*
6: /cgn2_6/prodata/1/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1522	100.0	1522	2	US-08-481-658B-1 Sequence 1, Appl1
2	1522	100.0	1522	2	US-08-477-504A-1 Sequence 1, Appl1
3	1522	100.0	1522	2	US-08-486-756A-1 Sequence 1, Appl1
4	1522	100.0	1522	2	US-08-485-862B-1 Sequence 1, Appl1
5	1522	100.0	1522	3	US-08-787-739-1 Sequence 1, Appl1
6	1522	100.0	1522	3	US-08-487-077A-1 Sequence 1, Appl1
7	1522	100.0	1522	3	US-08-485-863A-1 Sequence 1, Appl1
8	1522	100.0	1522	3	US-08-485-049D-1 Sequence 1, Appl1
9	1522	100.0	1522	3	US-09-178-115-1 Sequence 1, Appl1
10	1522	100.0	1522	3	US-09-177-776-1 Sequence 1, Appl1
11	1522	100.0	1522	4	US-09-772-719B-1 Sequence 1, Appl1
12	1522	100.0	1522	4	US-08-260-190-5 Sequence 5, Appl1
13	1416.8	93.1	5052	4	US-08-260-190-23 Sequence 23, Appl1
14	1399	91.9	1399	4	US-08-335-469-1 Sequence 1, Appl1
15	1399	91.9	1399	4	US-08-260-190-1 Sequence 1, Appl1
16	1302.8	85.6	1397	5	US-07-964-589-1 Sequence 1, Appl1
17	1302.8	85.6	1397	5	PCR-US93-02024-1 Sequence 1, Appl1
18	414.4	27.2	10898	2	US-08-481-658B-5 Sequence 5, Appl1
19	414.4	27.2	10898	2	US-08-477-504A-5 Sequence 5, Appl1
20	414.4	27.2	10898	2	US-08-486-756A-5 Sequence 5, Appl1
21	414.4	27.2	10898	2	US-08-485-862B-5 Sequence 5, Appl1
22	414.4	27.2	10898	3	US-08-787-739-5 Sequence 5, Appl1
23	414.4	27.2	10898	3	US-08-487-077A-5 Sequence 5, Appl1
24	414.4	27.2	10898	3	US-08-485-863A-5 Sequence 5, Appl1
25	414.4	27.2	10898	3	US-08-485-049D-5 Sequence 5, Appl1
26	414.4	27.2	10898	3	US-09-178-115-5 Sequence 5, Appl1
27	414.4	27.2	10898	3	US-09-177-776-5 Sequence 5, Appl1

28	414.4	27.2	10898	4	US-09-772-719B-5 Sequence 5, Appl1
29	413.4	27.2	415	2	US-08-481-658B-28 Sequence 28, Appl1
30	413.4	27.2	415	2	US-08-477-504A-28 Sequence 28, Appl1
31	413.4	27.2	415	2	US-08-486-756A-28 Sequence 28, Appl1
32	413.4	27.2	415	2	US-08-485-862B-28 Sequence 28, Appl1
33	413.4	27.2	415	3	US-08-487-077A-28 Sequence 28, Appl1
34	413.4	27.2	415	3	US-08-485-863A-28 Sequence 28, Appl1
35	413.4	27.2	415	3	US-08-485-049D-28 Sequence 28, Appl1
36	413.4	27.2	445	3	US-08-787-739-28 Sequence 28, Appl1
37	413.4	27.2	445	3	US-09-178-115-28 Sequence 28, Appl1
38	413.4	27.2	445	3	US-09-177-776-28 Sequence 28, Appl1
39	413.4	27.2	445	4	US-09-772-719B-28 Sequence 28, Appl1
40	233.4	15.3	470	2	US-08-481-658B-55 Sequence 55, Appl1
41	233.4	15.3	470	2	US-08-477-504A-55 Sequence 55, Appl1
42	233.4	15.3	470	2	US-08-486-756A-55 Sequence 55, Appl1
43	233.4	15.3	470	2	US-08-485-862B-55 Sequence 55, Appl1
44	233.4	15.3	470	3	US-08-787-739-55 Sequence 55, Appl1
45	233.4	15.3	470	3	US-08-487-077A-55 Sequence 55, Appl1

ALIGNMENTS

RESULT 1
US-08-481-658B-1
; Sequence 1, Application US/08481658B
; Patent No. 5955075
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,658B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.3E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-435-2034
; TELEFAX: 415-435-0727
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1522 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLBUCLUE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-481-658B-1
Query Match 100.0%; Score 1522; DB 2; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-477-504A-1

Query Match 100.0%; Score 1522; DB 2; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 ACAGTCAAGCCGATGAGTCCCTGTCAGCCAGCCCTGCTCCCTGTTGATCCCGACC 60
DB 1 ACAGTCAAGCCGATGAGTCCCTGTCAGCCAGCCCTGCTCCCTGTTGATCCCGACC 60
QY 61 CTGCTCCAGGCTCACTGTGCAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 CTGCTCCAGGCTCACTGTGCAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CCCGAGAGGTTGCCCCGATGAGAGGATTCCTCCCTGAGAGAGGCTCTTCTGGAGAA 180
DB 121 CCCGAGAGGTTGCCCCGATGAGAGGATTCCTCCCTGAGAGAGGCTCTTCTGGAGAA 180
QY 181 GATGACCACTGAGCGAGAGAGATCTGCCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 181 GATGACCACTGAGCGAGAGAGATCTGCCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
QY 241 CCAACCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 241 CCAACCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAAGAGATCTACCTACTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAAGAGATCTACCTACTGTT 360
QY 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAGAT 420
DB 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCACAGAGAGAGAGAGAGAT 420
QY 421 GACGAGAGATCAATGGGCTATGAGAGGAGACCCGCTGAGCCCGGCTGCTCCAGCTTC 480
DB 421 GACGAGAGATCAATGGGCTATGAGAGGAGACCCGCTGAGCCCGGCTGCTCCAGCTTC 480
QY 481 GGGGCGGCTTCAAGTCCCGGAGATATCCGCCCCAGCTGCGGCTCTTGGCCCGGACC 540
DB 481 GGGGCGGCTTCAAGTCCCGGAGATATCCGCCCCAGCTGCGGCTCTTGGCCCGGACC 540
QY 541 CTGCGCCCTGAGAACTCTGAGGCTTCAAGCTCCGCGCTCCAGAACTGCGGCTGCGC 600
DB 541 CTGCGCCCTGAGAACTCTGAGGCTTCAAGCTCCGCGCTCCAGAACTGCGGCTGCGC 600
QY 601 AAACAATGCGCAAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGCTGAGGCTCC 660
DB 601 AAACAATGCGCAAGTGTGCAACTGACCTGCTCTGAGGCTAGAGATGCTGAGGCTCC 660
QY 661 GGGCGGAGATCAAGGCTGCTGAGAGCTGCACTGCACTGAGGAGGCTGCAAGTGTCCGAG 720
DB 661 GGGCGGAGATCAAGGCTGCTGAGAGCTGCACTGCACTGAGGAGGCTGCAAGTGTCCGAG 720
QY 721 TCGAGACACTGTGAGAGAGCAACGCTTCCCTGCGAGATCCACGTTGATCCCTCAGC 780
DB 721 TCGAGACACTGTGAGAGAGCAACGCTTCCCTGCGAGATCCACGTTGATCCCTCAGC 780
QY 781 ACCGCTTTTCCAGAGTGAACAGAGGCTTGGAGGCGCCGAGAGAGGCTGAGGCTGTTG 840
DB 781 ACCGCTTTTCCAGAGTGAACAGAGGCTTGGAGGCGCCGAGAGAGGCTGAGGCTGTTG 840
QY 841 GCTTTTCTGAGAGAGGCGCGAGAAACAAGTGTATGAGAGAGTGTGCTGCTGCTG 900
DB 841 GCTTTTCTGAGAGAGGCGCGAGAAACAAGTGTATGAGAGAGTGTGCTGCTGCTG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGGACTGAGCAATATCTGCACTC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGGACTGAGCAATATCTGCACTC 960
```

```
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGGACTGAGCAATATCTGCACTC 960
QY 961 CTGCGCTGATCTGAGCGGCTACTTCCAAATGAGGGGCTCTGACTACACCGGCTGT 1020
DB 961 CTGCGCTGATCTGAGCGGCTACTTCCAAATGAGGGGCTCTGACTACACCGGCTGT 1020
QY 1021 GCCCAGGCTGATCTGAGCTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
DB 1021 GCCCAGGCTGATCTGAGCTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
QY 1081 CAACCTCTGACACCTCTGAGGAGCTGTGACTCTGCGTACAGCTGAACTTCCGA 1140
DB 1081 CAACCTCTGACACCTCTGAGGAGCTGTGACTCTGCGTACAGCTGAACTTCCGA 1140
QY 1141 GCGAGCGAGCTTTGATGAGGAGAGATGAGGCTCCTTCCCTGAGAGAGAGCAGC 1200
DB 1141 GCGAGCGAGCTTTGATGAGGAGAGATGAGGCTCCTTCCCTGAGAGAGAGCAGC 1200
QY 1201 AGTCTCGGCTGCTGAGCAGTCCAGTGAATTCCTGCTGAGTCTGCTGATCAATCTTA 1260
DB 1201 AGTCTCGGCTGCTGAGCAGTCCAGTGAATTCCTGCTGAGTCTGCTGATCAATCTTA 1260
QY 1261 GCTCTGTTTGGCTCTCTTTTGTCTGCTACACAGGCTGCGCTTCTTGTGAGATGAGA 1320
DB 1261 GCTCTGTTTGGCTCTCTTTTGTCTGCTACACAGGCTGCGCTTCTTGTGAGATGAGA 1320
QY 1321 AGGCGACAGAGAGGAGAACCAAGGGGCTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380
DB 1321 AGGCGACAGAGAGGAGAACCAAGGGGCTGAGCTACCGCCAGAGAGGTAAGCCGAG 1380
QY 1381 ACTGAGCTTAAGGCTGATCTTGAGAAATGTGAGAACCCAGAGGCAATCTGAGG 1440
DB 1381 ACTGAGCTTAAGGCTGATCTTGAGAAATGTGAGAACCCAGAGGCAATCTGAGG 1440
QY 1441 GAGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1441 GAGCGGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
QY 1501 TTTTAAATTAATATTATTAAT 1522
DB 1501 TTTTAAATTAATATTATTAAT 1522
```

RESULT 3
US-08-486-756A-1
Sequence 1, Application US/08486756A
Patent No. 5981711
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSER: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,756A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:

NAME: lauder, leona l.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-486-756A-1

Query Match 100.0%; Score 1522; DB 2; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCCCTGTTGATCCCGGCC 60
DB 1 ACAGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCCCTGTTGATCCCGGCC 60
QY 61 CCTGCTCCAGGCTCACTGTCGAACTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
DB 61 CCTGCTCCAGGCTCACTGTCGAACTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
QY 121 CCCGAGAGGTTGCTCCGAGTGAAGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGGA 180
DB 121 CCCGAGAGGTTGCTCCGAGTGAAGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGGA 180
QY 121 CCCGAGAGGTTGCTCCGAGTGAAGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGGA 180
DB 121 CCCGAGAGGTTGCTCCGAGTGAAGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGGA 180
QY 181 GATGACCCACTGAGGAGAGAGATTCCTCCGAGTGAAGAGATTCCTCCGAGAGAGAT 240
DB 181 GATGACCCACTGAGGAGAGAGATTCCTCCGAGTGAAGAGATTCCTCCGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATTCCTCCGAGTGAAGAGATTCCTCCGAGAGAGATTCCTCT 300
DB 241 CCACCCGAGAGAGAGATTCCTCCGAGTGAAGAGATTCCTCCGAGAGAGATTCCTCT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATTCCTACTGTT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTTAGAGATTCCTACTGTT 360
QY 361 GAGGCTCTGAGAGATTCCTGAAGAGAGAGGCTCCCTGAAGTTAGAGATTCCTACTGTT 420
DB 361 GAGGCTCTGAGAGATTCCTGAAGAGAGAGGCTCCCTGAAGTTAGAGATTCCTACTGTT 420
QY 421 GACGAGAGTCTAGGAGCTAGAGAGAGAGGCTCCCTGAGTGAAGAGATTCCTACTGTT 480
DB 421 GACGAGAGTCTAGGAGCTAGAGAGAGAGGCTCCCTGAGTGAAGAGATTCCTACTGTT 480
QY 481 GCGGAGCTGCTCACTGCTCCGAGTGAATCCGAGCCCTGAGCTCCCTGCTTCCCGAGC 540
DB 481 GCGGAGCTGCTCACTGCTCCGAGTGAATCCGAGCCCTGAGCTCCCTGCTTCCCGAGC 540
QY 541 CTGCGCCCTGAGAGCTCTGAGGCTTCCAGCTCCGAGCTCCGAGCTCCGAGCTCCGAGC 600
DB 541 CTGCGCCCTGAGAGCTCTGAGGCTTCCAGCTCCGAGCTCCGAGCTCCGAGCTCCGAGC 600
QY 601 AACATGAGCACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 660
DB 601 AACATGAGCACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 660
QY 661 GGGCGGAGTACCGGAGCTCTGAGCTGATCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGC 720
DB 661 GGGCGGAGTACCGGAGCTCTGAGCTGATCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGC 720
QY 721 TCGAGGCACTGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
DB 721 TCGAGGCACTGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780

QY 781 ACCGCTTTGCCAGAGTTGACGAGGCTTTGAGGAGGCTCCGAGAGGCTGAGCTGTTGAGC 840
DB 781 ACCGCTTTGCCAGAGTTGACGAGGCTTTGAGGAGGCTCCGAGAGGCTGAGCTGTTGAGC 840
QY 841 GCGCTTCTGAGAGAGGCTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 841 GCGCTTCTGAGAGAGGCTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
QY 901 GAAGAAATCGTGAAGAGAGCTCAGAGACTGAGTCCGAGAGCTGAGCATATCTGACATC 960
DB 901 GAAGAAATCGTGAAGAGAGCTCAGAGACTGAGTCCGAGAGCTGAGCATATCTGACATC 960
QY 961 CTGCGCTTCTGAGAGAGGCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 961 CTGCGCTTCTGAGAGAGGCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
QY 1021 GCCGAGGAGTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1080
DB 1021 GCCGAGGAGTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1080
QY 1081 CACACCTCTCTGACACCTGAGGAGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1140
DB 1081 CACACCTCTCTGACACCTGAGGAGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1140
QY 1141 GCGAGGAGGCTTTGAGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
DB 1141 GCGAGGAGGCTTTGAGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
QY 1201 AGTCTCGAGGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1260
DB 1201 AGTCTCGAGGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1260
QY 1261 GCGCTGAGTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1320
DB 1261 GCGCTGAGTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1320
QY 1321 AGGAG 1380
DB 1321 AGGAG 1380
QY 1381 ACTGAGGCTGAG 1440
DB 1381 ACTGAGGCTGAG 1440
QY 1441 GAGAGGCTGAG 1500
DB 1441 GAGAGGCTGAG 1500
QY 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1522
DB 1501 TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1522

RESULT 4
US-08-485-862B-1
Sequence 1, Application US/08485862B
Patent No. 5989838
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MY Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,862B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-485-862B-1

Query Match 100.0%; Score 1522; DB 2; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGCTCCCTGTCGCCAGCCCTGCTCTGTGATCCGGCC 60
DB 1 ACAGTCAGCCGATGCTCCCTGTCGCCAGCCCTGCTCTGTGATCCGGCC 60
QY 61 CTTGCTCCAGGCTCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 CTTGCTCCAGGCTCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CCCAGAGGTTCCCGGATGAGAGATTCCCTTGGAGAGAGCTCTTCTGGGAA 180
DB 121 CCCAGAGGTTCCCGGATGAGAGATTCCCTTGGAGAGAGCTCTTCTGGGAA 180
QY 181 GATGACCCACTGGGCGAGGAGATCGCCAGTGAAGAGATTCAACCAGAGAGAGAT 240
DB 181 GATGACCCACTGGGCGAGGAGATCGCCAGTGAAGAGATTCAACCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGATCTTACCTGGAGAGAGATCTTACCTGGAGAGAGATCTT 300
DB 241 CCACCCGAGAGAGATCTTACCTGGAGAGAGATCTTACCTGGAGAGAGATCTT 300
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTGAAGATCTTACTACT 360
DB 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTGAAGATCTTACTACT 360
QY 361 GAGGCTCTGAGATCTCAAGAACCCAGAAATTAAGCCACAGGAGCAAGAGAGGAT 420
DB 361 GAGGCTCTGAGATCTCAAGAACCCAGAAATTAAGCCACAGGAGCAAGAGAGGAT 420
QY 421 GACCAAGATCTTGGGCTATGAGAGGCGACCCGCTTGGCCCGGGGTGCCAGGCT 480
DB 421 GACCAAGATCTTGGGCTATGAGAGGCGACCCGCTTGGCCCGGGGTGCCAGGCT 480
QY 481 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCCACTGCGCTTCTGCGCGCC 540
DB 481 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCCACTGCGCTTCTGCGCGCC 540
QY 541 CTGCGCGCTTGGAACTCTTGGGCTTCAAGCTTCCGCGCTCCAGAACTGCGCGCT 600
DB 541 CTGCGCGCTTGGAACTCTTGGGCTTCAAGCTTCCGCGCTCCAGAACTGCGCGCT 600

QY 601 AACAAATGCGCAAGTGTGCACTGACCTGCTCTGAGCTAGAGATGCTGAGTCC 660
DB 601 AACAAATGCGCAAGTGTGCACTGACCTGCTCTGAGCTAGAGATGCTGAGTCC 660
QY 661 GGGCGGAGTACCGGCTCTGCACTGCACTGCACTGCGGGGCTGCAAGTCTCCGGC 720
DB 661 GGGCGGAGTACCGGCTCTGCACTGCACTGCACTGCGGGGCTGCAAGTCTCCGGC 720
QY 721 TGGAGCACTGTGGAAGGCGACCGGTTCCCGCGAGATCAAGTGTTCACCTCAG 780
DB 721 TGGAGCACTGTGGAAGGCGACCGGTTCCCGCGAGATCAAGTGTTCACCTCAG 780
QY 781 ACCGCTTTCAGAGATTGACAGAGGCTTGGGCGCCCGGAGAGGCTGCGCTGTGCGC 840
DB 781 ACCGCTTTCAGAGATTGACAGAGGCTTGGGCGCCCGGAGAGGCTGCGCTGTGCGC 840
QY 841 GCTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGACAGTTGCTGTGCTTG 900
DB 841 GCTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGACAGTTGCTGTGCTTG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCCCGAGACTGAGCATATCTGAC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCCCGAGACTGAGCATATCTGAC 960
QY 961 CTGCGCTTGACTTGAAGCGCTACTTCAATATGAGGCTCTCTGACTACACCGCTGT 1020
DB 961 CTGCGCTTGACTTGAAGCGCTACTTCAATATGAGGCTCTCTGACTACACCGCTGT 1020
QY 1021 GCCAGAGGTGATCTGATGATGCTGTTTAAACAGACAGTATGCTGATGAGCTTC 1080
DB 1021 GCCAGAGGTGATCTGATGATGCTGTTTAAACAGACAGTATGCTGATGAGCTTC 1080
QY 1081 CACACCTTCTGACACCTCTGAGGAGCCTGAGTACTCTGCTGACAGCTTCCGA 1140
DB 1081 CACACCTTCTGACACCTCTGAGGAGCCTGAGTACTCTGCTGACAGCTTCCGA 1140
QY 1141 GCGAGCAGCCTTGTGATGAGGAGATGATGAGGCTCTCTGCTGAGTGAAGCT 1200
DB 1141 GCGAGCAGCCTTGTGATGAGGAGATGATGAGGCTCTCTGCTGAGTGAAGCT 1200
QY 1201 AGTCTCGGCTGCTGAGCAGTCAAGCTGAATTCCTGCTGAGCTGATGATCTTA 1260
DB 1201 AGTCTCGGCTGCTGAGCAGTCAAGCTGAATTCCTGCTGAGCTGATGATCTTA 1260
QY 1261 GCGCTGCTTGTGCTCTCTTGTGCTCAACAAGTGGCGCTCTTGTGAGATGAGA 1320
DB 1261 GCGCTGCTTGTGCTCTCTTGTGCTCAACAAGTGGCGCTCTTGTGAGATGAGA 1320
QY 1321 AGGCAAGCAGAGAGGAGAACCAAGGGGCTGAGCTACCGCCAGAGAGTACCGAG 1380
DB 1321 AGGCAAGCAGAGAGGAGAACCAAGGGGCTGAGCTACCGCCAGAGAGTACCGAG 1380
QY 1381 ACTGAGCTTGAAGGCTGATCTTGAAGATGTGAGAGCCAGCCAGAGGCACTGAGG 1440
DB 1381 ACTGAGCTTGAAGGCTGATCTTGAAGATGTGAGAGCCAGCCAGAGGCACTGAGG 1440
QY 1441 GAGCGGCTTGAAGTCTCTGCTGCTCAATTAAGCCTCTTTTAACCTCCAGAAAT 1500
DB 1441 GAGCGGCTTGAAGTCTCTGCTGCTCAATTAAGCCTCTTTTAACCTCCAGAAAT 1500
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1501 TTTTAAATTAATTAATTAAT 1522

RESULT 5
US-08-787-739-1
Sequence 1, Application US/08787739
Patent No. 6027887
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir

TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street, Suite 610
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/787,739
FILING DATE: 24-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,756
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/481,658
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,862
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,863
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/487,077
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-787-739-1

Query Match 100.0%; Score 1522; DB 3; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGCTCCCTGTGCCCCAGCCCTGTGCTCCCTGTGATGCCGACC 60
DB 1 ACAATCAGCCGATGCTCCCTGTGCCCCAGCCCTGTGCTCCCTGTGATGCCGACC 60
QY 61 CTTGCTCCAGGCTCACTGTGCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTCAT 120
DB 61 CTTGCTCCAGGCTCACTGTGCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTCAT 120
QY 121 CCCGAGAGGTTGCCCGATGAGAGAGATTCCTCCCTGGAGAGAGGCTCTTGGGGAA 180
DB 121 CCCGAGAGGTTGCCCGATGAGAGAGATTCCTCCCTGGAGAGAGGCTCTTGGGGAA 180
QY 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACGAGAGAGAGAT 240

DB 181 GATGACCCACTGGGCGAGAGAGATCTGCCAGTGAAGAGATTCAACGAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTACTTGAGAGAGATCTACTTGAGAGAGATCTACTT 300
DB 241 CCACCCGAGAGAGAGATCTACTTGAGAGAGATCTACTTGAGAGAGATCTACTT 300
QY 301 GAAGTTAAGCTTAATCAAGAGAGAGGCTTCCTGAAGTTAGAGATCTACTTCTGT 360
DB 301 GAAGTTAAGCTTAATCAAGAGAGAGGCTTCCTGAAGTTAGAGATCTACTTCTGT 360
QY 361 GAGGCTCCGAGATCTCAAGAACCCAGAAATATATGCCCCAGGACAAAGAGAGAT 420
DB 361 GAGGCTCCGAGATCTCAAGAACCCAGAAATATATGCCCCAGGACAAAGAGAGAT 420
QY 421 GACCAAGTCAATGCGCTATGAGGCGACCCGCTCGGCCCGGAGTCTCCAGCCTGC 480
DB 421 GACCAAGTCAATGCGCTATGAGGCGACCCGCTCGGCCCGGAGTCTCCAGCCTGC 480
QY 481 GCGGCGCGCTTCAGTCCCGGTGATATCCGCCCCCAGCTTCGCGCTTCTGCCGCGC 540
DB 481 GCGGCGCGCTTCAGTCCCGGTGATATCCGCCCCCAGCTTCGCGCTTCTGCCGCGC 540
QY 541 CTGCGCCCCCTGGAATCTGTGGGCTTCCAGGCTCCCGCGCTCCAGAACTGCGCTGCG 600
DB 541 CTGCGCCCCCTGGAATCTGTGGGCTTCCAGGCTCCCGCGCTCCAGAACTGCGCTGCG 600
QY 601 AACCAATGACCAAGTGTGCACTGACCTGCTCTGAGAGATGAGTCTGAGGATCCC 660
DB 601 AACCAATGACCAAGTGTGCACTGACCTGCTCTGAGAGATGAGTCTGAGGATCCC 660
QY 661 GGGCGGAGTACCGGCTCTGACAGTGTGCACTGAGGAGGCTGCAAGTCTGCGGCG 720
DB 661 GGGCGGAGTACCGGCTCTGACAGTGTGCACTGAGGAGGCTGCAAGTCTGCGGCG 720
QY 721 TCGGAGCACTGTGGAAGGCGACCGTTCCCTGCGAGATCAAGTGTCACTGACG 780
DB 721 TCGGAGCACTGTGGAAGGCGACCGTTCCCTGCGAGATCAAGTGTCACTGACG 780
QY 781 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGAGCGCCGAGAGGCTGCGCTGTGCGC 840
DB 781 ACCGCTTTGCGAGAGTTGACAGAGGCTTGGGAGCGCCGAGAGGCTGCGCTGTGCGC 840
QY 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAAGATGCTATGAGCACTGCTGTCTGCTTG 900
DB 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAAGATGCTATGAGCACTGCTGTCTGCTTG 900
QY 901 GAAGAAATCGCTGAGAGAGGCTCAGAGATCAGAGTCCAGAGCTGACATATGCACTC 960
DB 901 GAAGAAATCGCTGAGAGAGGCTCAGAGATCAGAGTCCAGAGCTGACATATGCACTC 960
QY 961 CTGCTCTGTGACTTACCGCTCACTTCCATATGAGGAGGCTTCTGACTACACCGCTGT 1020
DB 961 CTGCTCTGTGACTTACCGCTCACTTCCATATGAGGAGGCTTCTGACTACACCGCTGT 1020
QY 1021 GCCCAGAGTGCATCTGAGCTGTGTAAACAGACAGTGAAGTGTGCTAAACAGCTC 1080
DB 1021 GCCCAGAGTGCATCTGAGCTGTGTAAACAGACAGTGAAGTGTGCTAAACAGCTC 1080
QY 1081 CACACCTCTCTGACACCTGTGAGGACCTGTGAGTCTGCGGCTACAGCTGAATTCCGA 1140
DB 1081 CACACCTCTCTGACACCTGTGAGGACCTGTGAGTCTGCGGCTACAGCTGAATTCCGA 1140
QY 1141 GCGAGCGAGCTTTGAATGAGCGAGATGATGAGGCTCTTCCCTGTGAGTGAAGCAGC 1200
DB 1141 GCGAGCGAGCTTTGAATGAGCGAGATGATGAGGCTCTTCCCTGTGAGTGAAGCAGC 1200
QY 1201 AGTCTGAGGCTGTGAGCGAGTCCAGCTGAATTCCTGCTGTGTGTGATGATCTTA 1260
DB 1201 AGTCTGAGGCTGTGAGCGAGTCCAGCTGAATTCCTGCTGTGTGTGATGATCTTA 1260
QY 1261 GCGCTGAGTTTGTGCTCTTTTGTGCTGACCAAGCTGCGCTTCTTGTGACATAGA 1320

Db 1261 GCCCTGTTTTGGCTCTCTTTTGTCTACCAAGCGTGCCTTCTTGTGAGATAGA 1320
Qy 1321 AGCAGACAGAGGGGACCAAGGGGGTGTAGCTACGGCCAGAGGATGAGCCGAG 1380
Db 1321 AGCAGACAGAGGGGACCAAGGGGGTGTAGCTACGGCCAGAGGATGAGCCGAG 1380
Qy 1381 ACTGAGCCTAGAGGCTGATCTTGGAGATGTGAGAGCCAGCCAGAGCATCTGAGGG 1440
Db 1381 ACTGAGCCTAGAGGCTGATCTTGGAGATGTGAGAGCCAGCCAGAGCATCTGAGGG 1440
Qy 1441 GGAGCCGGTAACTGCTCTGCTGCTCATTAATGCCATCTTTTAACTGCAAGAAAT 1500
Db 1441 GGAGCCGGTAACTGCTCTGCTGCTCATTAATGCCATCTTTTAACTGCAAGAAAT 1500
Qy 1501 TTTTAAATTAATTTATTAAT 1522
Db 1501 TTTTAAATTAATTTATTAAT 1522

RESULT 6

US-08-487-077A-1
Sequence 1, Application US/08487077A
Patent No. 6069242
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,077A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3H
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ. ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-487-077A-1

Query Match 100.0%; Score 1522; DB 3; Length 1522;
Best Local Similarity 100.0%; Fred No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGTCAGCGCATGCTCCCTGTGCCCCAGCCCTGCTCCTCTGTGTATCCGAGCC 60
Db 1 ACAGTCAGCGCATGCTCCCTGTGCCCCAGCCCTGCTCCTCTGTGTATCCGAGCC 60

Qy 61 CCTGCTCCAGGCTCTCACTGTGCAACTGTGCTCACTGCTGCTTCTGATGCTGTCAT 120
Db 61 CTTGCTCCAGGCTCTCACTGTGCAACTGTGCTCACTGCTGCTTCTGATGCTGTCAT 120
Qy 121 CCCCAAGGTTCCCTCGATGAGAGATTCCTTTGGAGAGAGCTCTTCTGGGAA 180
Db 121 CCCCAAGGTTCCCTCGATGAGAGATTCCTTTGGAGAGAGCTCTTCTGGGAA 180
Qy 181 GATGACCACTGGGAGAGAGATCTGCCCATTGAAGAGATTCACCCAGAGAGAGAT 240
Db 181 GATGACCACTGGGAGAGAGATCTGCCCATTGAAGAGATTCACCCAGAGAGAGAT 240
Qy 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Db 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
Qy 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCTGAAAGTTAAGAGATCTACCTACTGTT 360
Db 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCTGAAAGTTAAGAGATCTACCTACTGTT 360
Qy 361 GAGGCTCTGAGATCTTCAAGAACCCAGATTAATGCCACAGGAGCAAGAGAGAGAT 420
Db 361 GAGGCTCTGAGATCTTCAAGAACCCAGATTAATGCCACAGGAGCAAGAGAGAGAT 420
Qy 421 GACAGAGTCATTTGGGCTATGAGAGGAGACCCGCTGAGCCCGGGTCTCCAGGCTGC 480
Db 421 GACAGAGTCATTTGGGCTATGAGAGGAGACCCGCTGAGCCCGGGTCTCCAGGCTGC 480
Qy 481 GCGGGCCGCTTCCAGTCCCGGTGATATCCGCCCCAGCTGCGCCCTTCTGCCCCGAGC 540
Db 481 GCGGGCCGCTTCCAGTCCCGGTGATATCCGCCCCAGCTGCGCCCTTCTGCCCCGAGC 540
Qy 541 CTGCGCCCTTGGAACTCTGAGCTTCCAGCTTCCGCGCTTCCAGAACTGGGCTGCGCC 600
Db 541 CTGCGCCCTTGGAACTCTGAGCTTCCAGCTTCCGCGCTTCCAGAACTGGGCTGCGCC 600
Qy 601 AACAAATGACAGATGTGCAATGACCCGCTGAGCTGAGATGAGATGAGCTGAGGATCC 660
Db 601 AACAAATGACAGATGTGCAATGACCCGCTGAGCTGAGATGAGATGAGCTGAGGATCC 660
Qy 661 GGGCGGAGTACCGGCTCTGCAAGCTGATCTGCACTGGGGGGCTGCAAGTGTGCGGGC 720
Db 661 GGGCGGAGTACCGGCTCTGCAAGCTGATCTGCACTGGGGGGCTGCAAGTGTGCGGGC 720
Qy 721 TCGAGACACATGTGAGAGGCCACCGTTTCCCTGCGAGATCAGCTGATCACTCAGC 780
Db 721 TCGAGACACATGTGAGAGGCCACCGTTTCCCTGCGAGATCAGCTGATCACTCAGC 780
Qy 781 ACCGCTTTGCAAGTTGACAGAGGCTTGGGGGCGCGGAGAGGCTGACCGGTGGGCG 840
Db 781 ACCGCTTTGCAAGTTGACAGAGGCTTGGGGGCGCGGAGAGGCTGACCGGTGGGCG 840
Qy 841 GCTTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGACAGTTCGTCTCGCTTG 900
Db 841 GCTTTTCTGAGAGAGGCGCGGAGAGAAACAGTGCCTATGACAGTTCGTCTCGCTTG 900
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCCAGAGCTGACATATCTGCACTC 960
Db 901 GAAAGAAATGCTGAGAGAGGCTCAAGACTCAAGTCCAGAGCTGACATATCTGCACTC 960
Qy 961 CTGCGCTGCACTTACGCGCTACCTTCCATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Db 961 CTGCGCTGCACTTACGCGCTACCTTCCATATGAGGGGTCTCTGACTACACCGCCCTGT 1020
Qy 1021 GCCCAGGAGTATCTGAGCTGTGTTAACAGAGATGATCTAGTCTAGAGAGCTC 1080
Db 1021 GCCCAGGAGTATCTGAGCTGTGTTAACAGAGATGATCTAGTCTAGAGAGCTC 1080
Qy 1081 CACACCTCTCTGACACCTCTGAGGAGCTGTGATCTCTGCGCTACAGCTGAATCTCCGA 1140
Db 1081 CACACCTCTCTGACACCTCTGAGGAGCTGTGATCTCTGCGCTACAGCTGAATCTCCGA 1140

QY 1141 GCGACGACGCTTTGATGAGGCGAGTGAAGGCTCCTTCCCTGCTGAGTGAACAGC 1200
Db 1141 GCGACGACGCTTTGATGAGGCGAGTGAAGGCTCCTTCCCTGCTGAGTGAACAGC 1200			
QY 1201 AGTCTCGGAGCTGCTGAGGCGAGTGAAGGCTCCTTCCCTGCTGAGTGAACAGC 1260			
Db 1201 AGTCTCGGAGCTGCTGAGGCGAGTGAAGGCTCCTTCCCTGCTGAGTGAACAGC 1260			
QY 1261 GCGCTGCTTTTGGCTCCTTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320			
Db 1261 GCGCTGCTTTTGGCTCCTTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320			
QY 1321 AGGCGACGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1380			
Db 1321 AGGCGACGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1380			
QY 1381 ACTGAGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1440			
Db 1381 ACTGAGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1440			
QY 1441 GAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1500			
Db 1441 GAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1500			
QY 1501 TTTTAAATAAATATTTATAT 1522			
Db 1501 TTTTAAATAAATATTTATAT 1522			

RESULT 7

US-08-485-863A-1

Sequence 1, Application US/08485863A

Patent No. 6033548

GENERAL INFORMATION:

APPLICANT: Zavada, Jan

APPLICANT: Pastorekova, Silvia

APPLICANT: Pastorek, Jaromir

TITLE OF INVENTION: MN Gene and Protein

NUMBER OF SEQUENCES: 86

CORRESPONDENCE ADDRESS:

ADDRESSER: Leona L. Lauder

STREET: 6 Mariposa Court

CITY: Tiburon

STATE: California

COUNTRY: USA

ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485,863A

FILING DATE: 07-JUN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/260,190

FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.

REGISTRATION NUMBER: 30,863

REFERENCE/DOCKET NUMBER: D-0021.3G

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-435-2034

TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1522 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-485-863A-1

Query Match 100.0%; Score 1522; DB 3; Length 1522;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGTCAAGCCGATGAGTCTCCCTGTCAGCCAGCCCTGAGTCCCTGTTGATCCCGGC 60
Db 1 ACAAGTCAAGCCGATGAGTCTCCCTGTCAGCCAGCCCTGAGTCCCTGTTGATCCCGGC 60			
QY 61 CTTGCTCCAGGCTTCACCTGTCGCACTGCTGTCACCTGCTTCTGATGCTCTGAT 120			
Db 61 CTTGCTCCAGGCTTCACCTGTCGCACTGCTGTCACCTGCTTCTGATGCTCTGAT 120			
QY 121 CCCGAGAGTTGACCCCGGATCAAGAGATTCCTCCCTTGGAGAGAGGCTCTTGGAGAA 180			
Db 121 CCCGAGAGTTGACCCCGGATCAAGAGATTCCTCCCTTGGAGAGAGGCTCTTGGAGAA 180			
QY 181 GATGACCCGCTGGGCGAGAGAGATCTGCGCAGTGAAGAGATTCACCCAGAGAGAGAT 240			
Db 181 GATGACCCGCTGGGCGAGAGAGATCTGCGCAGTGAAGAGATTCACCCAGAGAGAGAT 240			
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300			
Db 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300			
QY 301 GAAGTTAAGCCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTACCTAGTT 360			
Db 301 GAAGTTAAGCCTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTACCTAGTT 360			
QY 361 GAGGCTCTGAGAGATCTCTCAAGAACCCGAGATTAATGCTCCACAGAGACAAAGAGGAGAT 420			
Db 361 GAGGCTCTGAGAGATCTCTCAAGAACCCGAGATTAATGCTCCACAGAGACAAAGAGGAGAT 420			
QY 421 GACCAAGTCAATGAGCGCTAATGAGAGGAGACCCGCGCTGGGCGGCTGCTCCGAGCTGC 480			
Db 421 GACCAAGTCAATGAGCGCTAATGAGAGGAGACCCGCGCTGGGCGGCTGCTCCGAGCTGC 480			
QY 481 GCGGCGCGCTTCAAGTCCCGGATGATCCGCCCAAGCTGCGCGCTTCTGCGCGGCGC 540			
Db 481 GCGGCGCGCTTCAAGTCCCGGATGATCCGCCCAAGCTGCGCGCTTCTGCGCGGCGC 540			
QY 541 CTGGGCGCGCTTCAAGTCCCGGATGATCCGCCCAAGCTGCGCGCTTCTGCGCGGCGC 600			
Db 541 CTGGGCGCGCTTCAAGTCCCGGATGATCCGCCCAAGCTGCGCGCTTCTGCGCGGCGC 600			
QY 601 AACATGCGCACAAGTGTGCAACTGACCTGCTGCTGAGATGAGTCTGAGTCTCC 660			
Db 601 AACATGCGCACAAGTGTGCAACTGACCTGCTGCTGAGATGAGTCTGAGTCTCC 660			
QY 661 GGGCGGAGATACCGGCTCTGCAAGTCACTGCACTGCGGAGGCTGCAAGTCTGCTCGGAGC 720			
Db 661 GGGCGGAGATACCGGCTCTGCAAGTCACTGCACTGCGGAGGCTGCAAGTCTGCTCGGAGC 720			
QY 721 TCGAGGACACTGTGAAAGGCAACCGTTCCCTGCGGAGATTCACGAGTTCACCTAGC 780			
Db 721 TCGAGGACACTGTGAAAGGCAACCGTTCCCTGCGGAGATTCACGAGTTCACCTAGC 780			
QY 781 ACCGCTTTGCGCAGAGTTGACGAGGCTTGGGCGCCCGGAGGCTGCGGCTTGGGCGC 840			
Db 781 ACCGCTTTGCGCAGAGTTGACGAGGCTTGGGCGCCCGGAGGCTGCGGCTTGGGCGC 840			
QY 841 GCTTTTCTGAGAGAGGCGCCGAAAGAAACAGTGCCTATAGACAGTTGCTGCTCGCTTG 900			
Db 841 GCTTTTCTGAGAGAGGCGCCGAAAGAAACAGTGCCTATAGACAGTTGCTGCTCGCTTG 900			
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGCTCAGGCTCCAGAGCTGAGCATATCTGCACTC 960			
Db 901 GAAGAAATGCTGAGAGAGGCTCAGAGCTCAGGCTCCAGAGCTGAGCATATCTGCACTC 960			
QY 961 CTGCGCTCTGACTTCAAGCCGCTACTTCCAAATATAGAGGAGTCTGCTGACTACCGCGCTGT 1020			

Db	961	CTGCGCTCTGACCTTCAGCGCGTCACTTCCAAATATGAGGGGCTCTGACTACACCGCCCTGT	1020
Oy	1021	GCCCAAGGATGATCTTGGACCTGTGTTTAAACGACAGATGATGCTGATAGCACTC	1080
Db	1021	GCCCAAGGATGATCTTGGACCTGTGTTTAAACGACAGATGATGCTGATAGCACTC	1080
Oy	1081	CACACCCCTCTGACACCCCTGTGGGGAACCTGTGACTCTCGGCTACAGCTGAATCTTCGA	1140
Db	1081	CACACCCCTCTGACACCCCTGTGGGGAACCTGTGACTCTCGGCTACAGCTGAATCTTCGA	1140
Oy	1141	GCGACGACGCTTTGAATGAGGCGATGTGATTTGAGGCTCTTCCTCGCTGAGATGACAGC	1200
Db	1141	GCGACGACGCTTTGAATGAGGCGATGTGATTTGAGGCTCTTCCTCGCTGAGATGACAGC	1200
Oy	1201	AGTCTCTGGGGTGTCTGAGCCAGTCCAGCTGAATTCCTGCTGAGCTGTGATCCTTA	1260
Db	1201	AGTCTCTGGGGTGTCTGAGCCAGTCCAGCTGAATTCCTGCTGAGCTGTGATCCTTA	1260
Oy	1261	GCCCTGTGTTTTTGGCTCTCTTTTGTCTGTCAACCAAGCTGGGTTCTTGTGCAATGAGA	1320
Db	1261	GCCCTGTGTTTTTGGCTCTCTTTTGTCTGTCAACCAAGCTGGGTTCTTGTGCAATGAGA	1320
Oy	1321	AGGCAAGCAGAAAGGGGAAACCAAAAGGGGTTGAGCTACCGGCCAGCAGAGGATAGCCAG	1380
Db	1321	AGGCAAGCAGAAAGGGGAAACCAAAAGGGGTTGAGCTACCGGCCAGCAGAGGATAGCCAG	1380
Oy	1381	ACTGAGGCTTGAAGGCTGATCTTGTGAAATGTGGAACCAAGCCAGAGGATCTGAGGG	1440
Db	1381	ACTGAGGCTTGAAGGCTGATCTTGTGAAATGTGGAACCAAGCCAGAGGATCTGAGGG	1440
Oy	1441	GGAAGCGGTAATCTGTCTGTCTGTCTCATATAGCCACTTCTTTAACTGCAAGAAATTT	1500
Db	1441	GGAAGCGGTAATCTGTCTGTCTGTCTCATATAGCCACTTCTTTAACTGCAAGAAATTT	1500
Oy	1501	TTTTTAAATTAATATTTATTAAT 1522	
Db	1501	TTTTTAAATTAATATTTATTAAT 1522	

RESULT 8
 Sequence 1, Application US/08485049D
 Patent No. 6204370
 GENERAL INFORMATION:
 APPLICANT: Zavada, Jan
 APPLICANT: Pastorekova, Silvia
 APPLICANT: Pastorek, Jaromir
 TITLE OF INVENTION: MN Gene and Protein
 NUMBER OF SEQUENCES: 86
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Leona L. Lauder
 STREET: 369 Pine Street
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30 (EP0)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/485,049D
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,190
 FILING DATE: 15-JUN-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Lauder, Leona L.
 REGISTRATION NUMBER: 30,863
 REFERENCE/DOCKET NUMBER: D-0021.3E
 TELECOMMUNICATION INFORMATION:

```

1 TELEPHONE: 415-981-2034
2 TELEFAX: 415-981-0332
3 INFORMATION FOR SEQ ID NO:
4 SEQUENCE CHARACTERISTICS:
5
6 LENGTH: 1522 base pairs
7
8 TYPE: nucleic acid
9
10 STRANDEDNESS: single
11
12 TOPOLOGY: linear
13
14 MOLECULE TYPE: cDNA
15
16 HYPOTHEICAL: NO
17
18 ANTI-SENSE: NO
19
20 JS-08-485-0490-1

```

Query Match	100.0%	Score 1522;	DB 3;	Length 1522;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 1522;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1	ACAGTCAGCGCATGGCTCCCTGTGGCCCAAGCCCTGTGGATCCCGGCC	60
Db	1	ACAGTCAGCGCATGGCTCCCTGTGGCCCAAGCCCTGTGGATCCCGGCC	60
Qy	61	CTGTCTCCAGGCTCACTGTGCACTGTGCTGTGCACTGTGCTTCTGATGCTGTTCAT	120
Db	61	CTGTCTCCAGGCTCACTGTGCACTGTGCTGTGCACTGTGCTTCTGATGCTGTTCAT	120
Qy	121	CCCCAGAGGTGCCCCGATGCAAGGAGATTCCCCCTTGGAGGAGGCTCTTCTGGGAA	180
Db	121	CCCCAGAGGTGCCCCGATGCAAGGAGATTCCCCCTTGGAGGAGGCTCTTCTGGGAA	180
Qy	181	GATGACCCACTGGGCGAGGAGGATCTGGCCAGTGAAGGAGATTCAACCAGAGAGAGAT	240
Db	181	GATGACCCACTGGGCGAGGAGGATCTGGCCAGTGAAGGAGATTCAACCAGAGAGAGAT	240
Qy	241	CCACCCTGGAGAGAGATTTACTTGGAGAAGGATCTAACCCTGAGAAGAGATCTTACT	300
Db	241	CCACCCTGGAGAGAGATTTACTTGGAGAAGGATCTAACCCTGAGAAGAGATCTTACT	300
Qy	301	GAAGTTAAGCTTAATCAAGAAGAAGGGCTCCCTGAAGTTAGAAGATCTAACCCTGTT	360
Db	301	GAAGTTAAGCTTAATCAAGAAGAAGGGCTCCCTGAAGTTAGAAGATCTAACCCTGTT	360
Qy	361	GAGGCTCTGAGATCTCTAAGAACCCCAAGATATATGCCACAGGACAAAGAAAGGGAT	420
Db	361	GAGGCTCTGAGATCTCTAAGAACCCCAAGATATATGCCACAGGACAAAGAAAGGGAT	420
Qy	421	GACCAAGTCATTTGGCGCTATGAGAGGCCACCCGCCCTTGGCCCCGGGTGTCCCAAGCTTC	480
Db	421	GACCAAGTCATTTGGCGCTATGAGAGGCCACCCGCCCTTGGCCCCGGGTGTCCCAAGCTTC	480
Qy	481	GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCCAAGCTCGCGGCTTCTGCCCCGCC	540
Db	481	GCGGCGCGCTTCAAGTCCCGGTGATATCCGCCCCCAAGCTCGCGGCTTCTGCCCCGCC	540
Qy	541	CTGCGCCCCCTGGAATCTCTGGGCTTTCAGCTCCCGCGCTCCCAAGATCGCGCTGCG	600
Db	541	CTGCGCCCCCTGGAATCTCTGGGCTTTCAGCTCCCGCGCTCCCAAGATCGCGCTGCG	600
Qy	601	AACAAATGGCAACGTGTGCACTGACCTTGCTCTGTGGCTAAGAGATGCTTGGGTCCC	660
Db	601	AACAAATGGCAACGTGTGCACTGACCTTGCTCTGTGGCTAAGAGATGCTTGGGTCCC	660
Qy	661	GCGCGGAGATACCGGGCTCTGAGCTGATCTGCACTGAGGAGCTGAGAGCTGTCCGGG	720
Db	661	GCGCGGAGATACCGGGCTCTGAGCTGATCTGCACTGAGGAGCTGAGAGCTGTCCGGG	720
Qy	721	TGAGAGCACTGTGAAAGGCCACGTTTCCCTGCGCAAGATCCAGTGTTCACCTCAGC	780
Db	721	TGAGAGCACTGTGAAAGGCCACGTTTCCCTGCGCAAGATCCAGTGTTCACCTCAGC	780
Qy	781	ACCGCTTTTGCAGAGTTTGAAGAGGCTTTGGGGGGCCCGGAGGCTGGCGCGTGTGGCC	840
Db	781	ACCGCTTTTGCAGAGTTTGAAGAGGCTTTGGGGGGCCCGGAGGCTGGCGCGTGTGGCC	840

QY	421	GAACAGAGATCATTTGGGCGTATGGAGGCGAACCCGCGCTGGGCCCGGAGTGTCCCAAGCTMG	488
Db	421	GAACAGAGATCATTTGGGCGTATGGAGGCGAACCCGCGCTGGGCCCGGAGTGTCCCAAGCTMG	480
QY	481	GGGGGCGGCTTCCAGTCCCGGATGAATTCGGCCCCAGCTGGCGGCTTTGCGCCGACC	540
Db	481	GGGGGCGGCTTCCAGTCCCGGATGAATTCGGCCCCAGCTGGCGGCTTTGCGCCGACC	540
QY	541	CTGGCGCCCTCTGAAATCTCTGGGGCTTCCAGCTTCGGCGGCTCCAGATCGGGCGTGGGC	600
Db	541	CTGGCGCCCTCTGAAATCTCTGGGGCTTCCAGCTTCGGCGGCTCCAGATCGGGCGTGGGC	600
QY	601	AACTATGGCAGATGTGTCAATCTGACCTCGCTCTGGCTAGAGATGGCTCTGGGTGCC	660
Db	601	AACTATGGCAGATGTGTCAATCTGACCTCGCTCTGGCTAGAGATGGCTCTGGGTGCC	660
QY	661	GGGGGGGAATACCGGGCTCTGCAAGCTGCATCTGCACTGGGGGGGCTGCAAGTGTCTGGGC	720
Db	661	GGGGGGGAATACCGGGCTCTGCAAGCTGCATCTGCACTGGGGGGGCTGCAAGTGTCTGGGC	720
QY	721	TCGAGAGCACTGTGGAAAGGCAACCGTTCCTCTGCGAGATCAAGTGTTCACCTCAGC	780
Db	721	TCGAGAGCACTGTGGAAAGGCAACCGTTCCTCTGCGAGATCAAGTGTTCACCTCAGC	780
QY	781	AACGCGCTTTCGCAAGATTGACAGAGGCTTTGGGGCGCCGGAGAGGCTGGCCGTGGGCGC	840
Db	781	AACGCGCTTTCGCAAGATTGACAGAGGCTTTGGGGCGCCGGAGAGGCTGGCCGTGGGCGC	840
QY	841	GCCTTTCTGAGAGAGGGGCCGGAAAGAAACAGTGCCTATAGACAGATGTGTCTGGCTTG	900
Db	841	GCCTTTCTGAGAGAGGGGCCGGAAAGAAACAGTGCCTATAGACAGATGTGTCTGGCTTG	900
QY	901	GAAGAATATCGCTGAGAGAGGCTCAAGACCTCAGTTCACAGACTGAGACATATCTGCACTC	960
Db	901	GAAGAATATCGCTGAGAGAGGCTCAAGACCTCAGTTCACAGACTGAGACATATCTGCACTC	960
QY	961	CTGGCCTCTGAACTTACGCGGCTACTTCCAAATATGAGGGGTCTCTGATCAACCGGCTGT	1020
Db	961	CTGGCCTCTGAACTTACGCGGCTACTTCCAAATATGAGGGGTCTCTGATCAACCGGCTGT	1020
QY	1021	GGCCAGGGTGTCACTGTGACTGTGTTTAAACAGACAGTGAATCTGAGTGTAAAGAGCTC	1080
Db	1021	GGCCAGGGTGTCACTGTGACTGTGTTTAAACAGACAGTGAATCTGAGTGTAAAGAGCTC	1080
QY	1081	CACACCCCTCTGCAACACCTGTGGGGGACCTGGTGACTCTGGGCTACAGTGAATCTTCCGA	1140
Db	1081	CACACCCCTCTGCAACACCTGTGGGGGACCTGGTGACTCTGGGCTACAGTGAATCTTCCGA	1140
QY	1141	GGGAGCAGACCTTGAATGGGCGAATGATTTGAGGCGCTCCCTCCCTGCTGAGTGGACAGC	1200
Db	1141	GGGAGCAGACCTTGAATGGGCGAATGATTTGAGGCGCTCCCTCCCTGCTGAGTGGACAGC	1200
QY	1201	AGTCTCGGGGCTGCTGAGCGAGTCCAGCTGAATTCCTCGCTGGCTGGTGTGACATCTTA	1260
Db	1201	AGTCTCGGGGCTGCTGAGCGAGTCCAGCTGAATTCCTCGCTGGCTGGTGTGACATCTTA	1260
QY	1261	GGCCCTGTTTTTGGCTCGCTCCTTTTGGCTGTCAACAGGTGCGGTTCTTGTGCAATGAGA	1320
Db	1261	GGCCCTGTTTTTGGCTCGCTCCTTTTGGCTGTCAACAGGTGCGGTTCTTGTGCAATGAGA	1320
QY	1321	AGGCAAGCAGAAAGGGGAAACCAAAAGGGGGGTGTAGCTACCGCCAGCAGAGGTAGCCGAG	1380
Db	1321	AGGCAAGCAGAAAGGGGAAACCAAAAGGGGGGTGTAGCTACCGCCAGCAGAGGTAGCCGAG	1380
QY	1381	ACTGGAGCTTGAAGGCTGAGTCTTGAAGATGTGAGAGCCAGCCAGAGGCACTTGAAGGG	1440
Db	1381	ACTGGAGCTTGAAGGCTGAGTCTTGAAGATGTGAGAGCCAGCCAGAGGCACTTGAAGGG	1440
QY	1441	GGAGCGGTTAACTGTCTGTCTGTCTCAATATGACACTTCTTTTAACTGCGCAAGAAATT	1500
Db	1441	GGAGCGGTTAACTGTCTGTCTGTCTCAATATGACACTTCTTTTAACTGCGCAAGAAATT	1500
QY	1501	TTTTTAAATTAATATTTATTAAT 1522	

Db 1501 TTTTAAATAATAATTATAAT 1522

RESULT 11
US-09-772-719B-1

```

; Sequence 1, Application US/09772719B
; Patent No. 6770438
; GENERAL INFORMATION:
;

```

APPLICANT: Zavada, Jan
Pastorekova, Silvia
Pastorek, Jaromir

```

;
; TITLE OF INVENTION: MN Gene and Protein
;
; NUMBER OF SEQUENCES: 86
;
; CORRESPONDENCE ADDRESS:
;
;

```

ADDRESSEE: Leona L. Launder
STREET: 465 California Street, Suite 450
CITY: San Francisco
STATE: California

STATE: CALIF
COUNTRY: USA
ZIP: 94104

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS

```

```

OFFICIALING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772 719R

```

PRIORITY: 00/00/1121/1122
 FILING DATE: 30-Jan-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021 3A-2

TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332

```

; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1522 base pairs

```

```

;
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;

```

```

; MOLECULE TYPE: CDNA
;
; HYPOTHETICAL: NO
; ANTI-SENSE: NO

```

SEQUENCE	DESCRIPTION:	SEQ ID NO:	1:
US-09-772-719B-1			

Query Match	100.0%	Score 1522;	DB 4;	Length 1522;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 1522; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 1 AAGTGAAGCCGATGCTCCCTGTGCCCCAGCCCCCTGGCTCCCTCTGTGATCCCGACC 60

61 cctgcctcagagcctcactctgtgcaactgctgctctcactgctgcttctgtagtgcctgtccat 120
 Db 1 ACAGTCAGCCCGATGCTCCCCCTGTGTCGCCAGCCCGCTGAGCTCCCTCTGTGATGCCCGCC 60

61 CCTGCTCAGGCTCACTGTGCACACTCTGCTGCTACCTGCTTCTATGCTGCAT 120

121 CCCCAGGTTGCCCGATGCGAGGATTTCCCCCTTGGAGGAGGCTCTTCTGGGGA 180

[illegible]

20
101 TAAATGATCCATCAGGAGAGATCTCCCTCAAGAGAGAGATCTACCTGAGAGAGATCTACCT 240
241 CCAACCCGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCT 300

```

Db      241  |||||CAACCCGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT
Qy      301  |||||GAAAGTTAAAGCTTAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      301  |||||GAAAGTTAAAGCTTAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      361  |||||GAGGCTCTGAGAGATCTCTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      361  |||||GAGGCTCTGAGAGATCTCTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      421  |||||GACAGAGATCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      421  |||||GACAGAGATCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      481  |||||GAGGAGCGGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      481  |||||GAGGAGCGGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      541  |||||CTGAGCGCGGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      541  |||||CTGAGCGCGGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      601  |||||AACAAATGAGCAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      601  |||||AACAAATGAGCAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      661  |||||GAGGAGAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      661  |||||GAGGAGAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      721  |||||TGGAGAGAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      721  |||||TGGAGAGAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      781  |||||ACCGGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      781  |||||ACCGGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      841  |||||GCTTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      841  |||||GCTTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      901  |||||GAAAGAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      901  |||||GAAAGAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      961  |||||CTGAGCGGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      961  |||||CTGAGCGGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1021  |||||GCCAGAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1021  |||||GCCAGAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1081  |||||GACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1081  |||||GACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1141  |||||GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1141  |||||GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1201  |||||AGTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1201  |||||AGTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1261  |||||GAGGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1261  |||||GAGGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1321  |||||AGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1321  |||||AGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG

```

```

Db      1321  |||||AGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1381  |||||ACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1381  |||||ACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1441  |||||GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1441  |||||GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      1501  |||||TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT
Db      1501  |||||TTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT

RESULT 12
US-08-260-190-5
; Sequence 5, Application US/08260190A
; Patent No. 6774117
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; FILE REFERENCE: D-0021-2
; CURRENT APPLICATION NUMBER: US/08/260,190A
; EARLIER FILING DATE: 1994-06-15
; EARLIER APPLICATION NUMBER: 08/177,093
; EARLIER FILING DATE: 1993-12-30
; EARLIER APPLICATION NUMBER: 07/964,589
; EARLIER FILING DATE: 1992-10-21
; EARLIER APPLICATION NUMBER: PV-709-92
; EARLIER FILING DATE: 1992-03-11
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patencin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1522
; TYPE: DNA
; ORGANISM: HUMAN
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (13) ..(1389)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (124) ..(1389)
US-08-260-190-5

Query Match      100.0%; Score 1522; DB 4; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  |||||ACAGTACGCGCATGAGCTCCCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      1  |||||ACAGTACGCGCATGAGCTCCCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      61  |||||CTGTCTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      61  |||||CTGTCTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      121  |||||CCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      121  |||||CCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      181  |||||GATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      181  |||||GATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      241  |||||CAACCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      241  |||||CAACCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Qy      301  |||||GAAAGTTAAAGCTTAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      301  |||||GAAAGTTAAAGCTTAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG

```


Db 3961 TCATTGCGCTATGAGGCGACCCG-CCTGGCCCCGGGTGTCCCAAGCTGCGCGGGCCG 4019
Qy 489 CTTCAGTCCCGGATGATATCCGCCCCAGCTGCGCCCTTTGCGCCGCTTGCGGCC 548
Db 4020 CTTCAGTCCCGGATGATATCCGCCCCAGCTGCGCGCCCTTTGCGCCGCTTGCGGCC 4079
Qy 549 CCTGGAATCTTGGGCTTCAGCTCCCGCGCTCCCAAGACTGCGCTGCGCAACATG 608
Db 4080 CCTGGAATCTTGGGCTTCAGCTCCCGCGCTCCCAAGACTGCGCTGCGCAACATG 4138
Qy 609 CCAAGTGTGCAATGACCTGCTCTGCGCTAAGATGCTCTGCGCTCCGCGCGGA 668
Db 4139 CCAAGTGTGCAATGACCTGCTCTGCGCTAAGATGCTCTGCGCTCCGCGCGGA 4198
Qy 669 GTACCGGCGCTGCACTGCTATGTGCACTGGGGGGGTGAGAGTCTCCGCGCTCGAGCA 728
Db 4199 GTACCGGCGCTGCACTGCTATGTGCACTGGGGGGGTGAGAGTCTCCGCGCTCGAGCA 4257
Qy 729 CACTGTGAAAGGCAACGCTTCCCTGCGAGATCCAGTGTGCTCACTGAGCAACGCTT 788
Db 4258 CACTGTGAAAGGCAACGCTTCCCTGCGAGATCCAGTGTGCTCACTGAGCAACGCTT 4317
Qy 789 TCCAGAGTTGACGAGGCTTGGGGGCGCCGGAGGCTTGGCGGTGGCGCGCTTCT 848
Db 4318 TCCAGAGTTGACGAGGCTTGGGGGCGCCGGAGGCTTGGCGGTGGCGCGCTTCT 4376
Qy 849 GGAAGAGGCGCGGAGAGAAACAGTG-CCTATGAGAGATGCTGTCTCCCTGGAGAGAA 907
Db 4377 GGAAGAGGCGCGGAGAGAAACAGTG-CCTATGAGAGATGCTGTCTCCCTGGAGAGAA 4436
Qy 908 TCGCTGAGAGAGGCTCAGAGACTCAGATCCAGAGCTGACATATCTGACCTCTGCT 967
Db 4437 TCGCTGAGAGAGGCTCAGAGACTCAGATCCAGAGCTGACATATCTGACCTCTGCT 4496
Qy 968 CTGACTTCAACCGCTATCTTCAATATGAGGGGTCTCTGACTACACGCGCTGTGCCAG 1027
Db 4497 CTGACTTCAACCGCTATCTTCAATATGAGGGGTCTCTGACTACACGCGCTGTGCCAG 4556
Qy 1028 GTGTATCTGAGCTGTGTTTAAACAGATGCTGTGAGTGTGTAAGAGCTTCCACAC 1087
Db 4557 GTGTATCTGAGCTGTGTTTAAACAGATGCTGTGAGTGTGTAAGAGCTTCCACAC 4616
Qy 1088 TCTCTGACACCGTGGGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1147
Db 4617 TCTCTGACACCGTGGGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 4676
Qy 1148 AGCTTTGATGAGCGAGTATGAGGCTCTTCCCTGCTGAGTGTGACAGAGTCTCT 1207
Db 4677 AGCTTTGATGAGCGAGTATGAGGCTCTTCCCTGCTGAGTGTGACAGAGTCTCT 4736
Qy 1208 GGGCTGTGAGCGAGTGTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1267
Db 4737 GGGCTGTGAGCGAGTGTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 4796
Qy 1268 TTTTGGGCTCTTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1327
Db 4797 TTTTGGGCTCTTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 4856
Qy 1328 ACAGAGAGGGAACCAAGAGGAGTGTAGC-TACCGCCAGCAGAGGTAAGCCAGACTGGA 1386
Db 4857 ACAGAGAGGGAACCAAGAGGAGTGTAGC-TACCGCCAGCAGAGGTAAGCCAGACTGGA 4916
Qy 1387 GCTTGAAGGCTGATTTTGAAGATGTGAAGACCGCAGAGGCTTGAAGGGGAGGC 1446
Db 4917 GCTTGAAGGCTGATTTTGAAGATGTGAAGACCGCAGAGGCTTGAAGGGGAGGC 4976
Qy 1447 GGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1506
Db 4977 GGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5036
Qy 1507 AATAAATATTTAAT 1522
Db 5037 AATAAATATTTAAT 5052

RESULT 14
US-08-335-469-1
; Sequence 1, Application US/08335469A
; Patent No. 6004535
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: Method to Detect and Quantify MN Protein/Polypeptide
; FILE REFERENCE: D-0021A
; CURRENT APPLICATION NUMBER: US/08/335,469A
; EARLIER APPLICATION NUMBER: 07/964,589
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1399
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1266)
US-08-335-469-1
Query Match 91.9%; Score 1399; DB 3; Length 1399;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1399; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 124 CAGAGTTTCCCGGATGAGAGATTTCCCTTGGAGAGAGCTTCTTGGGAAAGT 183
Db 1 CAGAGTTTCCCGGATGAGAGATTTCCCTTGGAGAGAGCTTCTTGGGAAAGT 60
Qy 184 GACCACTGGGAGAGAGATGCGCCAGTGAAGAGATTCAACCAAGAGAGAGATCA 243
Db 61 GACCACTGGGAGAGAGATGCGCCAGTGAAGAGATTCAACCAAGAGAGAGATCA 120
Qy 244 CCGGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCTGGA 303
Db 121 CCGGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGATCTACCTGGA 180
Qy 304 GTTAAAGCTTAATCAGAGAGAGAGGCTTCCCTGAAGTGTGAGATCTACTGTTGAG 363
Db 181 GTTAAAGCTTAATCAGAGAGAGAGGCTTCCCTGAAGTGTGAGATCTACTGTTGAG 240
Qy 364 GCTCCGAGAGATCTCAAGAACCCCAAGATTAATGCCACAGGGAACAAAGGGGATGAC 423
Db 241 GCTCCGAGAGATCTCAAGAACCCCAAGATTAATGCCACAGGGAACAAAGGGGATGAC 300
Qy 424 CAGAGTATGCGCTATGAGAGAGAGCCGCGCTGCGCCCGGGGTGCCACGCTGCGG 483
Db 301 CAGAGTATGCGCTATGAGAGAGAGCCGCGCTGCGCCCGGGGTGCCACGCTGCGG 360
Qy 484 GCGCGCTTCAATCCCGGATGATTCGCGCCCAAGCTGCGCGCTTCTGCGCGCTG 543
Db 361 GCGCGCTTCAATCCCGGATGATTCGCGCCCAAGCTGCGCGCTTCTGCGCGCTG 420
Qy 544 GCGCGCTTGAAGCTCTGCGGCTTCAAGCTCCGCGCGCTCCCAAGCTGCGGCTGCGC 603
Db 421 GCGCGCTTGAAGCTCTGCGGCTTCAAGCTCCGCGCGCTCCCAAGCTGCGGCTGCGC 480
Qy 604 AATGCGCAAGTGTGCAACTGACCTGCTCTCTGAGCTAGAGATGCTTGGGTCCGCG 663
Db 481 AATGCGCAAGTGTGCAACTGACCTGCTCTCTGAGCTAGAGATGCTTGGGTCCGCG 540
Qy 664 CCGGAGTACCGGGCTGTGAGCTGTGCACTGTGCACTGGGGGGCTGCAAGTGTCCGGCTG 723
Db 541 CCGGAGTACCGGGCTGTGAGCTGTGCACTGTGCACTGGGGGGCTGCAAGTGTCCGGCTG 600
Qy 724 GAGCACTGTGGAAGGCAACGTTTCCCTGCGAGATTCAGTGTGTTCACTCAGCAACC 783

[illegible]

EARLIER FILING DATE: 1992-03-11									
NUMBER OF SEQ ID NOS: 26									
SOFTWARE: PatentIn Ver. 2.0									
SEQ ID NO 1									
LENGTH: 1399									
TYPE: DNA									
ORGANISM: HUMAN									
FEATURE:									
NAME/KEY: CDS									
LOCATION: (1)..(1266)									
US-08-260-190-1									
Query Match									
Best Local Similarity 91.9%; Score 1399; DB 4; Length 1399;									
Matches 1399; Conservative 100.0%; Pred. No. 0;									
Mismatches 0; Indels 0; Gaps 0									
QY	124	CAGAGTTGCCCCCGGATGCAAGAGATTCCCTTGGAGAGAGGCTCTTCTGGGAGAT	183						
DB	1	CAGAGTTGCCCCCGGATGCAAGAGATTCCCTTGGAGAGAGGCTCTTCTGGGAGAT	60						
QY	184	GACCACTGGGCGAGAGAGATCTGGCCAGTGAAGATTCAACCAGAGAGAGATCCA	243						
DB	61	GACCACTGGGCGAGAGAGATCTGGCCAGTGAAGATTCAACCAGAGAGAGATCCA	120						
QY	244	CCCGAGAGAGAGATCTAAGTGAAGAGATCTAAGTGAAGAGATCTAAGTGAAG	303						
DB	121	CCCGAGAGAGAGATCTAAGTGAAGAGATCTAAGTGAAGAGATCTAAGTGAAG	180						
QY	304	GTTAAAGCTTAATCAAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTAAGTGAAG	363						
DB	181	GTTAAAGCTTAATCAAGAGAGAGAGGCTCCCTGAAGTTAGAGATCTAAGTGAAG	240						
QY	364	GCTCTGAGAGATCTCAAGAAACCCAGAAATATGCCCCAAGAGACAAAGAGAGATGAC	423						
DB	241	GCTCTGAGAGATCTCAAGAAACCCAGAAATATGCCCCAAGAGACAAAGAGAGATGAC	300						
QY	424	CAGAGTCAATTGGCGCTATGAGAGGAGACCCGCGCTTGGCCCCGGGTGTCCCAAGCTTGGCG	483						
DB	301	CAGAGTCAATTGGCGCTATGAGAGGAGACCCGCGCTTGGCCCCGGGTGTCCCAAGCTTGGCG	360						
QY	484	GAGCGCTTCCAGTCCCGGATGATATCCGCCCCAGACTCGCGCTTCTGACCCGAGCTG	543						
DB	361	GAGCGCTTCCAGTCCCGGATGATATCCGCCCCAGACTCGCGCTTCTGACCCGAGCTG	420						
QY	544	CGCCCCCTGGAACTCTGAGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGGCTGCGAAC	603						
DB	421	CGCCCCCTGGAACTCTGAGGCTTCCAGCTCCGCGCGCTCCAGAACTGCGGCTGCGAAC	480						
QY	604	AATGGCCACAGTGTGCAATGACCTGCTCTGAGGCTGAAGATGAGCTGTGGATCCGGG	663						
DB	481	AATGGCCACAGTGTGCAATGACCTGCTCTGAGGCTGAAGATGAGCTGTGGATCCGGG	540						
QY	664	CGGAGTACCGGGGCTTGGCAAGCTGCACTTGGAGGAGGCTGCAAGTCTGTCGGGCTCG	723						
DB	541	CGGAGTACCGGGGCTTGGCAAGCTGCACTTGGAGGAGGCTGCAAGTCTGTCGGGCTCG	600						
QY	724	GAGACACTGTGGAAGGCCACCGTTTCCGTCGAGATCCAAGTGTCAACTCAGACAC	783						
DB	601	GAGACACTGTGGAAGGCCACCGTTTCCGTCGAGATCCAAGTGTGTCAACTCAGACAC	660						
QY	784	GCTTTGCGAGAGTTGAAGAGGCTTGGAGGCGCCCGGAGAGGCTGAGCGTGTGGCGCC	843						
DB	661	GCTTTGCGAGAGTTGAAGAGGCTTGGAGGCGCCCGGAGAGGCTGAGCGTGTGGCGCC	720						
QY	844	TTTCTGAGAGAGGCGCCCGGAGAGAAACAATGCTATGAGCAAGTTGCTGTCTGCTTGGAA	903						
DB	721	TTTCTGAGAGAGGCGCCCGGAGAGAAACAATGCTATGAGCAAGTTGCTGTCTGCTTGGAA	780						
QY	904	GAAATCGCTGAGAGGCTCAGAGACTCAGGCTCCAGAGACTGGAATATTCGACTCTG	963						
DB	781	GAAATCGCTGAGAGGCTCAGAGACTCAGGCTCCAGAGACTGGAATATTCGACTCTG	840						
QY	964	CCCTCTGACTCAGCGGCTACTTCAATATAGAGGATCTGACTACACCGCCCTGTGCC	1022						

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using BW model

Run on: February 6, 2005, 03:56:53 ; Search time 860 Seconds
(without alignments)
10168.886 Million cell updates/sec

Title: US-09-967-237a-1
Perfect score: 1522
Sequence: 1 acagctgagccgcacgctcc.....ttaataataattcataat 1522

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4300275 seqs, 2872944193 residues

Total number of hits satisfying chosen parameters: 8600550

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1522	100.0	9	US-09-772-719-1	Sequence 1, Appl1
2	1522	100.0	18	US-09-967-237-1	Sequence 1, Appl1
3	1522	100.0	15	US-10-795-933-5	Sequence 5, Appl1
4	1522	100.0	18	US-10-888-694-1	Sequence 1, Appl1
5	1522	100.0	9	US-09-954-456-89	Sequence 89, Appl1
6	1522	100.0	1552	US-09-954-456-726	Sequence 726, Appl1
7	1522	100.0	1552	US-09-960-706-1080	Sequence 1080, Appl1
8	1522	100.0	1552	US-09-873-367C-516	Sequence 516, Appl1
9	1522	100.0	1552	US-09-968-007A-213	Sequence 213, Appl1
10	1522	100.0	1552	US-10-301-822-11	Sequence 11, Appl1
11	1522	100.0	1552	US-10-465-572-9	Sequence 9, Appl1
12	1522	100.0	1552	US-10-172-118-574	Sequence 574, Appl1

13	1522	100.0	1552	15	US-10-388-360-291	Sequence 291, Appl1
14	1522	100.0	1552	15 <td>US-10-295-027-305</td> <td>Sequence 305, Appl1</td>	US-10-295-027-305	Sequence 305, Appl1
15	1522	100.0	1552	15 <td>US-10-295-027-1022</td> <td>Sequence 1022, Appl1</td>	US-10-295-027-1022	Sequence 1022, Appl1
16	1522	100.0	1552	16 <td>US-10-342-887-574</td> <td>Sequence 574, Appl1</td>	US-10-342-887-574	Sequence 574, Appl1
17	1522	100.0	1552	17 <td>US-10-734-564-71</td> <td>Sequence 71, Appl1</td>	US-10-734-564-71	Sequence 71, Appl1
18	1522	100.0	1552	18 <td>US-10-723-860-460</td> <td>Sequence 460, Appl1</td>	US-10-723-860-460	Sequence 460, Appl1
19	1522	100.0	1552	18 <td>US-10-723-860-5135</td> <td>Sequence 5135, Appl1</td>	US-10-723-860-5135	Sequence 5135, Appl1
20	1517.4	99.7	1519	15 <td>US-10-102-524-1695</td> <td>Sequence 1695, Appl1</td>	US-10-102-524-1695	Sequence 1695, Appl1
21	1416.8	93.1	5052	18 <td>US-10-795-933-23</td> <td>Sequence 23, Appl1</td>	US-10-795-933-23	Sequence 23, Appl1
22	1399	91.9	1399	18 <td>US-10-795-933-1</td> <td>Sequence 1, Appl1</td>	US-10-795-933-1	Sequence 1, Appl1
23	1379.8	90.7	1833	9 <td>US-09-772-719-5</td> <td>Sequence 2, Appl1</td>	US-09-772-719-5	Sequence 2, Appl1
24	414.4	27.2	10898	10 <td>US-09-967-237-5</td> <td>Sequence 5, Appl1</td>	US-09-967-237-5	Sequence 5, Appl1
25	414.4	27.2	10898	18 <td>US-10-888-694-5</td> <td>Sequence 5, Appl1</td>	US-10-888-694-5	Sequence 5, Appl1
26	414.4	27.2	10898	18 <td>US-10-888-694-5</td> <td>Sequence 28, Appl1</td>	US-10-888-694-5	Sequence 28, Appl1
27	413.4	27.2	415	9 <td>US-09-772-719-28</td> <td>Sequence 28, Appl1</td>	US-09-772-719-28	Sequence 28, Appl1
28	413.4	27.2	445	10 <td>US-09-967-237-28</td> <td>Sequence 28, Appl1</td>	US-09-967-237-28	Sequence 28, Appl1
29	413.4	27.2	445	18 <td>US-10-888-694-28</td> <td>Sequence 11940, Appl1</td>	US-10-888-694-28	Sequence 11940, Appl1
30	331	21.7	331	16 <td>US-10-242-535A-11940</td> <td>Sequence 11940, Appl1</td>	US-10-242-535A-11940	Sequence 11940, Appl1
31	331	21.7	331	16 <td>US-10-085-783A-11940</td> <td>Sequence 11940, Appl1</td>	US-10-085-783A-11940	Sequence 11940, Appl1
32	300.8	19.8	304	9 <td>US-09-777-564-348</td> <td>Sequence 348, Appl1</td>	US-09-777-564-348	Sequence 348, Appl1
33	300.8	19.8	304	14 <td>US-10-015-219-348</td> <td>Sequence 348, Appl1</td>	US-10-015-219-348	Sequence 348, Appl1
34	297	19.5	297	9 <td>US-09-777-564-592</td> <td>Sequence 592, Appl1</td>	US-09-777-564-592	Sequence 592, Appl1
35	297	19.5	297	14 <td>US-10-015-219-592</td> <td>Sequence 592, Appl1</td>	US-10-015-219-592	Sequence 592, Appl1
36	296	19.4	296	15 <td>US-10-102-524-697</td> <td>Sequence 697, Appl1</td>	US-10-102-524-697	Sequence 697, Appl1
37	293	19.3	305	9 <td>US-09-777-564-8</td> <td>Sequence 8, Appl1</td>	US-09-777-564-8	Sequence 8, Appl1
38	293	19.3	305	14 <td>US-10-015-219-8</td> <td>Sequence 8, Appl1</td>	US-10-015-219-8	Sequence 8, Appl1
39	277	18.2	277	15 <td>US-10-102-524-453</td> <td>Sequence 453, Appl1</td>	US-10-102-524-453	Sequence 453, Appl1
40	277	18.2	277	15 <td>US-10-102-524-1020</td> <td>Sequence 1020, Appl1</td>	US-10-102-524-1020	Sequence 1020, Appl1
41	275.4	18.1	277	15 <td>US-10-102-524-1139</td> <td>Sequence 1139, Appl1</td>	US-10-102-524-1139	Sequence 1139, Appl1
42	265	17.4	276	15 <td>US-10-102-524-1444</td> <td>Sequence 1444, Appl1</td>	US-10-102-524-1444	Sequence 1444, Appl1
43	233.4	15.3	470	10 <td>US-09-772-719-55</td> <td>Sequence 55, Appl1</td>	US-09-772-719-55	Sequence 55, Appl1
44	233.4	15.3	470	10 <td>US-09-967-237-55</td> <td>Sequence 55, Appl1</td>	US-09-967-237-55	Sequence 55, Appl1
45	233.4	15.3	470	18 <td>US-10-888-694-55</td> <td>Sequence 55, Appl1</td>	US-10-888-694-55	Sequence 55, Appl1

ALIGNMENTS

RESULT 1
US-09-772-719-1
; Sequence 1, Application US/09772719
; Patent No. US20020137910A1
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 369 Pine Street
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772,719
FILING DATE: 30-JAN-2001
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E

```
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-772-719-1

Query Match      100.0%; Score 1522; DB 9; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  AAGATCAGCCGATGAGTCTCCCTGTCGCCAGCCCTGCTCCCTCTGTATATCCCGGCC 60
DB      1  AAGATCAGCCGATGAGTCTCCCTGTCGCCAGCCCTGCTCCCTCTGTATATCCCGGCC 60
QY      61  CCTGCTCCAGGCTCTCACTGTGCACTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT 120
DB      61  CCTGCTCCAGGCTCTCACTGTGCACTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT 120
QY      121  CCCGAGAGTTGCTCCCGATGCAAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
DB      121  CCCGAGAGTTGCTCCCGATGCAAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
QY      181  GATGACCCACTGGGGGAGAGAGATCTGCCCACTGTAAGAGAGATTTCAACCCAGAGAGAGAT 240
DB      181  GATGACCCACTGGGGGAGAGAGATCTGCCCACTGTAAGAGAGATTTCAACCCAGAGAGAGAT 240
QY      241  CCAACCCGAGAGAGAGATCTGCTGAGAGAGATCTGAGAGAGAGATCTGAGAGATCTGAG 300
DB      241  CCAACCCGAGAGAGAGATCTGCTGAGAGAGATCTGAGAGAGAGATCTGAGAGATCTGAG 300
QY      301  GAAATTAAAGCTTAATCAGAGAGAGAGGCTCTCTGAAGTTAGAGATCTTACTTACTGT 360
DB      301  GAAATTAAAGCTTAATCAGAGAGAGAGGCTCTCTGAAGTTAGAGATCTTACTTACTGT 360
QY      361  GAGGCTCTGAGAGATCTCTCAAGAACCCAGATTAATGCCCAAGAGAGAGAGAGAT 420
DB      361  GAGGCTCTGAGAGATCTCTCAAGAACCCAGATTAATGCCCAAGAGAGAGAGAT 420
QY      421  GACGAGATCATTTGGCGCTATGAGAGGAGCCCGCTGGCCCGGGGTGTCCCAAGCTTGC 480
DB      421  GACGAGATCATTTGGCGCTATGAGAGGAGCCCGCTGGCCCGGGGTGTCCCAAGCTTGC 480
QY      481  GCGGCGCGCTTCAATCCCCGGTGAATTCGCGCCCAAGCTTGCCTTCTGCGCGGCC 540
DB      481  GCGGCGCGCTTCAATCCCCGGTGAATTCGCGCCCAAGCTTGCCTTCTGCGCGGCC 540
QY      541  CTGGGCGCGCTTGAATCTCTGGGCTTCAAGCTCCCGCGCTCCCAAGATCTGGCGCTGG 600
DB      541  CTGGGCGCGCTTGAATCTCTGGGCTTCAAGCTCCCGCGCTCCCAAGATCTGGCGCTGG 600
QY      601  AACATGAGCAAGTGTGCACTGACCCCTGCTCTGGGCTGAGAGATGGCTCTGGGCTCC 660
DB      601  AACATGAGCAAGTGTGCACTGACCCCTGCTCTGGGCTGAGAGATGGCTCTGGGCTCC 660
QY      661  GGGCGGGAGTACCGGGCTCTGCACTGTGCACTGGGGGGCTGCAAGTGTCTCGGGCC 720
DB      661  GGGCGGGAGTACCGGGCTCTGCACTGTGCACTGGGGGGCTGCAAGTGTCTCGGGCC 720
QY      721  TCGAGGCACTGTGGAAGGCCACCGTTCCCTGCGAGATTCAGATGAGTCTCACTCAGC 780
DB      721  TCGAGGCACTGTGGAAGGCCACCGTTCCCTGCGAGATTCAGATGAGTCTCACTCAGC 780
QY      781  ACCGCTTTTGCAGAGTTGACGAGGCTTGGGGCGCCCGGAGAGGCTGTGGTGGCC 840
DB      781  ACCGCTTTTGCAGAGTTGACGAGGCTTGGGGCGCCCGGAGAGGCTGTGGTGGCC 840
```

```
QY      841  GCTTTCTGAGAGAGGCGCCGAAAGAAAAGATGCTATATGACAGTTCCTGTCTGCTTG 900
DB      841  GCTTTCTGAGAGAGGCGCCGAAAGAAAAGATGCTATATGACAGTTCCTGTCTGCTTG 900
QY      901  GAAAGAAATCGCTGAGAGAGGCTCAGAGATCCAGAGACTGAGACATATCTGCACTC 960
DB      901  GAAAGAAATCGCTGAGAGAGGCTCAGAGATCCAGAGACTGAGACATATCTGCACTC 960
QY      961  CTGGCTCTGACCTTCAAGCCGCTACTTCCATATATGAGGGGTCTGACTACACCGCCCTGT 1020
DB      961  CTGGCTCTGACCTTCAAGCCGCTACTTCCATATATGAGGGGTCTGACTACACCGCCCTGT 1020
QY      1021  GCCAGAGGATCATCTGAGACTGTGTTTAAACAGACAGATGATGCTGATGCTTAAAGACGCTC 1080
DB      1021  GCCAGAGGATCATCTGAGACTGTGTTTAAACAGACAGATGATGCTGATGCTTAAAGACGCTC 1080
QY      1081  CACACCTCTGTGACACCTGTGGGAGCTGTGATCTGGGCTTACAGCTGAACCTTCGGA 1140
DB      1081  CACACCTCTGTGACACCTGTGGGAGCTGTGATCTGGGCTTACAGCTGAACCTTCGGA 1140
QY      1141  GCGAGCAGCCCTTGAATGGCGAGTGAATGAGGCTTCTCCCTGCTGAGTGAACAGC 1200
DB      1141  GCGAGCAGCCCTTGAATGGCGAGTGAATGAGGCTTCTCCCTGCTGAGTGAACAGC 1200
QY      1201  AGTCTCGGGCTGCTGAGCCAGTCAAGTGAATTCCTGCTGGCTGCTGTAATCTTA 1260
DB      1201  AGTCTCGGGCTGCTGAGCCAGTCAAGTGAATTCCTGCTGGCTGCTGTAATCTTA 1260
QY      1261  GCGCTGGTTTGTGCTCTCTTGTGCTGACACAGCGGTGCTCTGTGACAGTGA 1320
DB      1261  GCGCTGGTTTGTGCTCTCTTGTGCTGACACAGCGGTGCTCTGTGACAGTGA 1320
QY      1321  AGGAGCAGCAGAGAGGAGACCAAGGGGGTGTGACTACCGCCAGCAGAGATAGCCGAG 1380
DB      1321  AGGAGCAGCAGAGAGGAGACCAAGGGGGTGTGACTACCGCCAGCAGAGATAGCCGAG 1380
QY      1381  ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAAGACCAAGCAGAGGATCTGAGGG 1440
DB      1381  ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAAGACCAAGCAGAGGATCTGAGGG 1440
QY      1441  GAGCGGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB      1441  GAGCGGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
QY      1501  TTTTAAATTAATTTTAAAT 1522
DB      1501  TTTTAAATTAATTTTAAAT 1522

RESULT 2
US-09-967-237-1
Sequence 1, Application US/09967237
Publication No. US20030049828A1
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: NM Gene and Protein
FILE REFERENCE: D-0021.5B-2
CURRENT APPLICATION NUMBER: US/09/967,237
PRIOR FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: 09/178,115
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 1
LENGTH: 1522
TYPE: DNA
ORGANISM: HUMAN
FEATURE:
NAME/KEY: CDS
LOCATION: (13)..(1389)
```

NAME/KEY: mat_peptide
LOCATION: (124)..(1389)
US-09-967-237-1

Query Match 100.0%; Score 1522; DB 10; Length 1522;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 AAGATGAGCGGATGAGCTCCCTGATGCGCCAGCCCGTGGCTCCCTGTTGATCCCGGCG 60
DB 1 AAGATGAGCGGATGAGCTCCCTGATGCGCCAGCCCGTGGCTCCCTGTTGATCCCGGCG 60
QY 61 CCTGCTCCAGGCTCACTGTCGAACTGCTGTCATCTGCTGCTTCTGATGCTGTCAT 120
DB 61 CCTGCTCCAGGCTCACTGTCGAACTGCTGTCATCTGCTGCTTCTGATGCTGTCAT 120
QY 121 CCCGAGAGGTTGCCCCGATGCGAGAGATTTCCCTTGGAGAGAGGCTTTCTGGGAAA 180
DB 121 CCCGAGAGGTTGCCCCGATGCGAGAGATTTCCCTTGGAGAGAGGCTTTCTGGGAAA 180
QY 181 GATGACCCGCTGGGCGAGAGAGATTCGCCAGTGAAGAGATTCACCCGAGAGAGAT 240
DB 181 GATGACCCGCTGGGCGAGAGAGATTCGCCAGTGAAGAGATTCACCCGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 300
DB 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGATCTACCT 300
QY 301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAGATTAGAGATCTACTACTGTT 360
DB 301 GAAATTAGCTTAATCAGAGAGAGAGGCTCCCTGAGATTAGAGATCTACTACTGTT 360
QY 361 GAGGCTCCGAGAGATCTCTCAAGACCCGAGATTAAGCCCAAGAGAGAGAGAGAT 420
DB 361 GAGGCTCCGAGAGATCTCTCAAGACCCGAGATTAAGCCCAAGAGAGAGAGAGAT 420
QY 421 GAGGCTCCGAGAGATCTCTCAAGACCCGAGATTAAGCCCAAGAGAGAGAGAGAT 480
DB 421 GAGGCTCCGAGAGATCTCTCAAGACCCGAGATTAAGCCCAAGAGAGAGAGAGAT 480
QY 481 GCGGCGCGCTTCAGTCCCGGATGATTCGCGCCGAGCTGCGCGCTTTCTGCGCGCC 540
DB 481 GCGGCGCGCTTCAGTCCCGGATGATTCGCGCCGAGCTGCGCGCTTTCTGCGCGCC 540
QY 541 CTGCGCGCGCTTCAGTCCCGGATGATTCGCGCCGAGCTGCGCGCTTTCTGCGCGCC 600
DB 541 CTGCGCGCGCTTCAGTCCCGGATGATTCGCGCCGAGCTGCGCGCTTTCTGCGCGCC 600
QY 601 AACAAATGCGCAGATGTCGAACTGACCTGCTCTGAGGCTAGAGATGCTGAGGTC 660
DB 601 AACAAATGCGCAGATGTCGAACTGACCTGCTCTGAGGCTAGAGATGCTGAGGTC 660
QY 661 GGGCGGAGATGACCGGCTCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
DB 661 GGGCGGAGATGACCGGCTCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
QY 721 TCGGAGCACACTGTGAGAGAGAGCCGTTTCCCTGCGAGATCACTGCTGCTGCTGCT 780
DB 721 TCGGAGCACACTGTGAGAGAGAGCCGTTTCCCTGCGAGATCACTGCTGCTGCTGCT 780
QY 781 ACCGCTTTGCGAGAGTTCAGAGAGGCTTGGGCGCGCCGAGAGGCTGCGCTGCTGCT 840
DB 781 ACCGCTTTGCGAGAGTTCAGAGAGGCTTGGGCGCGCCGAGAGGCTGCGCTGCTGCT 840
QY 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCAGTGTGCTGCTGCT 900
DB 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGAGCAGTGTGCTGCTGCT 900
QY 901 GAAAGAAATGCTGAGAGAGAGCTCAGAGATCAGAGTCCCGAGCTGAGACATCTGCACT 960
DB 901 GAAAGAAATGCTGAGAGAGAGCTCAGAGATCAGAGTCCCGAGCTGAGACATCTGCACT 960
QY 961 CTGCGCTCTGACTTCAAGCGCTACTTCAATATGAGGAGGCTCTGACTACACCGCTGT 1020
```

```
DB 961 CTGCGCTCTGACTTCAAGCGCTACTTCAATATGAGGAGGCTCTGACTACACCGCTGT 1020
QY 1021 GCCCAGGCTGATCTGAGCTGATGTTTAAACAGACATGATGATGATGATGATGATG 1080
DB 1021 GCCCAGGCTGATCTGAGCTGATGTTTAAACAGACATGATGATGATGATGATGATG 1080
QY 1081 CACACCTCTGACACCTGAGGAGACCTGAGTACTCGGCTACAGCTGAACCTCCGA 1140
DB 1081 CACACCTCTGACACCTGAGGAGACCTGAGTACTCGGCTACAGCTGAACCTCCGA 1140
QY 1141 GCGAGCAGACCTTTGAAATGAGGAGATGATGAGGCTCTTCCCTGCTGAGTGAACAG 1200
DB 1141 GCGAGCAGACCTTTGAAATGAGGAGATGATGAGGCTCTTCCCTGCTGAGTGAACAG 1200
QY 1201 AGTCTCGGAGCTGCTGAGGAGATCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCT 1260
DB 1201 AGTCTCGGAGCTGCTGAGGAGATCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCT 1260
QY 1261 GCCCTGTTTGGGCTCCCTTTTGTCTGTCACAGAGTGGCTTCCCTGCTGAGATGAGA 1320
DB 1261 GCCCTGTTTGGGCTCCCTTTTGTCTGTCACAGAGTGGCTTCCCTGCTGAGATGAGA 1320
QY 1321 AGGACACACAGAGAGAGAGACCAAGAGGCTGAGCTACCGCCACAGAGAGTACCGAG 1380
DB 1321 AGGACACACAGAGAGAGAGACCAAGAGGCTGAGCTACCGCCACAGAGAGTACCGAG 1380
QY 1381 ACTGAGCTTGAAGGCTGATTTTGAGAAATGTGAGAAAGCCAGAGAGCATCTGAGGG 1440
DB 1381 ACTGAGCTTGAAGGCTGATTTTGAGAAATGTGAGAAAGCCAGAGAGCATCTGAGGG 1440
QY 1441 GAGGCGGATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1441 GAGGCGGATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1501 TTTTAAATTAATTAATTAAT 1522
```

RESULT 3
US-10-795-933-5
Sequence 5, Application US/10795933
Publication No. US20040259126A1
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021-2
CURRENT APPLICATION NUMBER: US/10/795,933
PRIOR FILING DATE: 2004-03-08
PRIOR APPLICATION NUMBER: US/08/260,190
PRIOR FILING DATE: 1994-06-15
PRIOR APPLICATION NUMBER: 08/177,093
PRIOR FILING DATE: 1993-12-30
PRIOR APPLICATION NUMBER: 07/964,589
PRIOR FILING DATE: 1992-10-21
PRIOR APPLICATION NUMBER: PV-709-92
PRIOR FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 1522
TYPE: DNA
ORGANISM: HUMAN
FEATURE:
NAME/KEY: CDS
LOCATION: (13)..(1389)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (124)..(1389)
US-10-795-933-5

TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-888-694-1

Query Match 100.0%; Score 1522; DB 18; Length 1522;
Beet Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGAGTGGCTCCCTGTCGCCAGCCCTGGCTCCCTGTTGATCCCGGCC 60
DB 1 ACAGTCAGCCGAGTGGCTCCCTGTCGCCAGCCCTGGCTCCCTGTTGATCCCGGCC 60
QY 61 CCTGCTCCAGGCTCTCACTGTGCACTGTGCTGCTCACTGCTGCTTCTGATGCTTCAT 120
DB 61 CCTGCTCCAGGCTCTCACTGTGCACTGTGCTGCTCACTGCTGCTTCTGATGCTTCAT 120
QY 121 CCCCAAGGTTGCCCCGGATGAGAGGATTTCCCCCTTGGAGAGGCTCTTCTGGGAA 180
DB 121 CCCCAAGGTTGCCCCGGATGAGAGGATTTCCCCCTTGGAGAGGCTCTTCTGGGAA 180
QY 181 GATGACCCACTGAGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 181 GATGACCCACTGAGGCGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
QY 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
DB 241 CCACCCGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCT 300
QY 301 GAAGTTAAGCTTAAATCAGAAAGAGGCTCCCTAAGTTAGAGATTTACTTACTTGT 360
DB 301 GAAGTTAAGCTTAAATCAGAAAGAGGCTCCCTAAGTTAGAGATTTACTTACTTGT 360
QY 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATATGCCACAGGACAAAGAGGAGAT 420
DB 361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATATGCCACAGGACAAAGAGGAGAT 420
QY 421 GACCAAGATCATTTGGGCTATGGAAGGCAACCCGCTGGCCCCGGGTGTCCCAAGCTGC 480
DB 421 GACCAAGATCATTTGGGCTATGGAAGGCAACCCGCTGGCCCCGGGTGTCCCAAGCTGC 480
QY 481 GGGGGCCGCTTCAATCCCGGTGATATCCCGCCCACTGGCCGCTTTCGCGGCC 540
DB 481 GGGGGCCGCTTCAATCCCGGTGATATCCCGCCCACTGGCCGCTTTCGCGGCC 540
QY 541 CTGGCCCCCTGGAATCTCTGGGCTTCAAGCTCCGCGCTCCCAAGAACTGGGCTGGCC 600
DB 541 CTGGCCCCCTGGAATCTCTGGGCTTCAAGCTCCGCGCTCCCAAGAACTGGGCTGGCC 600
QY 601 AACCAATGGCAAGTGTGCACTGACCTGCTCTGAGCTAGAGATGCTTGGGTGCC 660
DB 601 AACCAATGGCAAGTGTGCACTGACCTGCTCTGAGCTAGAGATGCTTGGGTGCC 660
QY 661 GGGGGGAGATACCGGCTCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCA 720
DB 661 GGGGGGAGATACCGGCTCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCA 720
QY 721 TCGGAGCACTGTGGAAGGCAACGTTCCCGGAGATCAAGTGTGTTACCTCAGC 780
DB 721 TCGGAGCACTGTGGAAGGCAACGTTCCCGGAGATCAAGTGTGTTACCTCAGC 780
QY 781 ACCGCTTTTCCAGAGATTGACGAGGCTTGTGGGCGCCCGGAGAGGCTTGGCCGTTGGCC 840
DB 781 ACCGCTTTTCCAGAGATTGACGAGGCTTGTGGGCGCCCGGAGAGGCTTGGCCGTTGGCC 840

QY 841 GCCTTCTGAGAGAGGCGCCGGAAGAAAACAGTGCCTATAGACAGTGTGCTCGCTTG 900
DB 841 GCCTTCTGAGAGAGGCGCCGGAAGAAAACAGTGCCTATAGACAGTGTGCTCGCTTG 900
QY 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGAGACTGACATATCTGACTC 960
DB 901 GAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGAGACTGACATATCTGACTC 960
QY 961 CTGCTCTGACTTCAAGCCGCTTCACTTCCAAATATGAGGGGTCTCTGACTACCCGCTGT 1020
DB 961 CTGCTCTGACTTCAAGCCGCTTCACTTCCAAATATGAGGGGTCTCTGACTACCCGCTGT 1020
QY 1021 GCCCAGGAGTATCTGAGCTGATGTTTAAACAGACAGTATGCTGAGTCTTAAGCACTC 1080
DB 1021 GCCCAGGAGTATCTGAGCTGATGTTTAAACAGACAGTATGCTGAGTCTTAAGCACTC 1080
QY 1081 CACACCTCTCTGACACCTCTGAGGACCTGAGTACTCTGAGCTACAGCTGAACCTTCGA 1140
DB 1081 CACACCTCTCTGACACCTCTGAGGACCTGAGTACTCTGAGCTACAGCTGAACCTTCGA 1140
QY 1141 GCGAGGACCTTTGAAATGAGGAGATGATGAGGCTCTTCTGCTGCTGAGTGAACAGC 1200
DB 1141 GCGAGGACCTTTGAAATGAGGAGATGATGAGGCTCTTCTGCTGCTGAGTGAACAGC 1200
QY 1201 AGTCTCGGAGCTGAGAGCAGTCCAGCTGAATTCCTGCTGAGCTGAGTGAACATCTTA 1260
DB 1201 AGTCTCGGAGCTGAGAGCAGTCCAGCTGAATTCCTGCTGAGCTGAGTGAACATCTTA 1260
QY 1261 GCCCTGTTTGGGCTCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
DB 1261 GCCCTGTTTGGGCTCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
QY 1321 AGGCAAGCAGAGAGGAGAAACAAAGGGGTGTGAGCTACCGCCAGAGAGGTAAGCCAG 1380
DB 1321 AGGCAAGCAGAGAGGAGAAACAAAGGGGTGTGAGCTACCGCCAGAGAGGTAAGCCAG 1380
QY 1381 ACTGAGGCTTAAAGGCTGATCTTGAAGATGTAAGAGGCAAGGCAAGGCACTGAGGG 1440
DB 1381 ACTGAGGCTTAAAGGCTGATCTTGAAGATGTAAGAGGCAAGGCAAGGCACTGAGGG 1440
QY 1441 GAGGCGGATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
DB 1441 GAGGCGGATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
QY 1501 TTTTAAATTAATTTATTAAT 1522
DB 1501 TTTTAAATTAATTTATTAAT 1522

RESULT 5
US-09-954-456-89
Sequence 89, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456
PRIOR FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US/60/233,617
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US/60/234,923
PRIOR FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: US/60/235,134
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,637
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,638
PRIOR FILING DATE: 2000-09-26

```
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 89
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-89

Query Match      100.0%; Score 1522; DB 9; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  ACAGTCAGCCGATGCTCCCTGTGCCCCAGCCCTGCTCCTGTGATCCCGGCC 60
DB      31  ACAGTCAGCCGATGCTCCCTGTGCCCCAGCCCTGCTCCTGTGATCCCGGCC 90
QY      61  CCTGCTCCAGGCTCACTGTGCACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB      91  CCTGCTCCAGGCTCACTGTGCACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCT 150
QY      121  CCCGAGAGGTTCCCGGATGAGAGGATTTCCCTTGGAGAGGCTCTTCTGGGGA 180
DB      151  CCCGAGAGGTTCCCGGATGAGAGGATTTCCCTTGGAGAGGCTCTTCTGGGGA 210
QY      181  GATGACCCACTGAGGAGAGGATCTGCGCAGTGAAGAGATTTCAACCCAGAGAGAT 240
DB      211  GATGACCCACTGAGGAGAGGATCTGCGCAGTGAAGAGATTTCAACCCAGAGAGAT 270
QY      241  CAACCCGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAGAGAGAGATTTACT 300
DB      271  CAACCCGAGAGAGAGATTTACTGAGAGAGAGATTTACTGAGAGAGAGATTTACT 330
QY      301  GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTGAAGATTTACTGCTGT 360
DB      331  GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAAGTGAAGATTTACTGCTGT 390
QY      361  GAGGCTCTGAGATCTCTCAAGAACCCCAAGATTAATGCCACAGAGAGAGAGAT 420
DB      391  GAGGCTCTGAGATCTCTCAAGAACCCCAAGATTAATGCCACAGAGAGAGAGAT 450
QY      421  GACGAGAGCTATGGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
DB      451  GACGAGAGCTATGGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 510
QY      481  GCGGCGCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCGCGGC 540
DB      511  GCGGCGCGCTTCAATCCCGGTGATATCCGCCCCAGCTGCGGCTTCTGCGCGGC 570
QY      541  CTGCGCGCTTGAATCTCTGAGGCTTCCAGCTGCGCGCTTCCAGAACTGCGCTGCG 600
DB      571  CTGCGCGCTTGAATCTCTGAGGCTTCCAGCTGCGCGCTTCCAGAACTGCGCTGCG 630
QY      601  AACAAATGCGCAAGTGTCACTGACCCCTGCTCTGAGGCTGAAGATGCTGTGGCTCC 660
DB      631  AACAAATGCGCAAGTGTCACTGACCCCTGCTCTGAGGCTGAAGATGCTGTGGCTCC 690
QY      661  GGGCGGAGATACCGGCTCTGAGCTGATCTGCACTGGGAGGCTGCAAGTGTGTCGG 720
DB      691  GGGCGGAGATACCGGCTCTGAGCTGATCTGCACTGGGAGGCTGCAAGTGTGTCGG 750
QY      721  TCGGAGCACTGTGGAAGGCAACCGTTTCTCTGCGAGAGATCACTGTGTTCACTCA 780
DB      751  TCGGAGCACTGTGGAAGGCAACCGTTTCTCTGCGAGAGATCACTGTGTTCACTCA 810
QY      781  ACCGCTTTGCAAGATTGACAGAGGCTTGGGGCGCCCGGAGAGGCTGTGGCTGTGG 840
```

```
DB      811  ACCGCTTTGCAAGATTGACAGAGGCTTGGGGCGCCCGGAGAGGCTGTGGCTGTGG 870
QY      841  GCGCTTCTGAGAGAGGCGCCGGAAGAAACAGTGCTTATGAGAGCTGTGCTGCTGG 900
DB      871  GCGCTTCTGAGAGAGGCGCCGGAAGAAACAGTGCTTATGAGAGCTGTGCTGCTGG 930
QY      901  GAAAGAAATGCTGAGAAAGGCTCAGAGACTAGAGTCCAGAGACTGAGACATATCTG 960
DB      931  GAAAGAAATGCTGAGAAAGGCTCAGAGACTAGAGTCCAGAGACTGAGACATATCTG 990
QY      961  CTGCGCTTGAATTCAGCGCTACTTCCAAATATGAGGAGCTTCTGCACTACACCGCC 1020
DB      991  CTGCGCTTGAATTCAGCGCTACTTCCAAATATGAGGAGCTTCTGCACTACACCGCC 1050
QY      1021  GCCCAGAGTGTCACTGTGATCTGTGTTAACAGACAGATGATGATGATGATGATGAT 1080
DB      1051  GCCCAGAGTGTCACTGTGATCTGTGTTAACAGACAGATGATGATGATGATGATGAT 1110
QY      1081  CACACCTCTCTGACACCTGTGAGGACCTGTGATCTGTGAGCTGATGATGATGATG 1140
DB      1111  CACACCTCTCTGACACCTGTGAGGACCTGTGATCTGTGAGCTGATGATGATGATG 1170
QY      1141  GCGAGCGAGCTTTGAAATGAGGCGAGTGAATGAGGCTTCTGCTGAGAGTGAAGAG 1200
DB      1171  GCGAGCGAGCTTTGAAATGAGGCGAGTGAATGAGGCTTCTGCTGAGAGTGAAGAG 1230
QY      1201  AGTCTCTGAGGCTGTGAGCCAGTCACTGATGATTTCTGCTGAGCTGATGATGATG 1260
DB      1231  AGTCTCTGAGGCTGTGAGCCAGTCACTGATGATTTCTGCTGAGCTGATGATGATG 1290
QY      1261  GCCCTGTGTTTGGCTCTTTTGTGCTGTCACAGAGCTGCGCTTCTGTGCAATGAGA 1320
DB      1291  GCCCTGTGTTTGGCTCTTTTGTGCTGTCACAGAGCTGCGCTTCTGTGCAATGAGA 1350
QY      1321  AGGCGAGCACAAGAGGAGAACCAAGAGGAGTGTGATACCGCCAGAGAGAGTGGCC 1380
DB      1351  AGGCGAGCACAAGAGGAGAACCAAGAGGAGTGTGATACCGCCAGAGAGAGTGGCC 1410
QY      1381  ACTGAGGCTTGAAGAGCTGATCTTGAAGATGTGAAGAGCAGAGAGAGATCTGAGG 1440
DB      1411  ACTGAGGCTTGAAGAGCTGATCTTGAAGATGTGAAGAGCAGAGAGAGATCTGAGG 1470
QY      1441  GAGGCGGTTAATCTGCTGTCTGCTCATTTATGCACTTCTTTTAACTGCCAAGAA 1500
DB      1471  GAGGCGGTTAATCTGCTGTCTGCTCATTTATGCACTTCTTTTAACTGCCAAGAA 1530
QY      1501  TTTTAAATTAATTTTAAAT 1522
DB      1531  TTTTAAATTAATTTTAAAT 1552

RESULT 6
US-09-954-456-726
; Sequence 726, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
```


PRIOR APPLICATION NUMBER: US/60/235,638
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,711
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,720
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,840
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,863
PRIOR FILING DATE: 2000-09-27
NUMBER OF SEQ ID NOS: 2276
SOFTWARE: Patentin version 3.0
SEQ ID NO 726
LENGTH: 1552
TYPE: DNA
ORGANISM: Homo sapiens
US-09-954-456-726

Query Match 100.0%; Score 1522; DB 9; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AAGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCTGTTGATCCGACC 60
31 AAGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCTGTTGATCCGACC 90
61 CCGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCTGTTGATCCGACC 120
91 CCGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCTGTTGATCCGACC 150
121 CCGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCTGTTGATCCGACC 180
151 CCGTCAGCCGCAATGCTCCCTGTCGCCCAAGCCCTGCTCTGTTGATCCGACC 210
181 GATGACCACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
211 GATGACCACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 270
241 CCAACCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
271 CCAACCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 330
301 GAAGTTAAAGCTTAATCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
331 GAAGTTAAAGCTTAATCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 390
361 GAAGTTAAAGCTTAATCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
391 GAAGTTAAAGCTTAATCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 450
421 GACCAAGATCATTTGGGCTATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
451 GACCAAGATCATTTGGGCTATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 510
481 GCGGCGCGCTTCAAGTCCCGGAGATATCCGCGCCAGCTGCGGCTTTGCGCCGACC 540
511 GCGGCGCGCTTCAAGTCCCGGAGATATCCGCGCCAGCTGCGGCTTTGCGCCGACC 570
541 CTGCGCGCCCTGGAATCTCTGCGGCTTCAAGTCCCGGCTTCAAGTCCCGGCTTCA 600
571 CTGCGCGCCCTGGAATCTCTGCGGCTTCAAGTCCCGGCTTCAAGTCCCGGCTTCA 630
601 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGCGGCTTCAAGTCCCGGCTTCA 660
631 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGCGGCTTCAAGTCCCGGCTTCA 690
661 GCGGCGGAGATACCGGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
691 GCGGCGGAGATACCGGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 750
721 TCGAGACCACTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
751 TCGAGACCACTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 810

781 ACCGCTTTGCGAGAGTTAGCAGAGGCTTGGGAGCGCCGGAGAGGCTGCGCGGTTGAGCC 840
811 ACCGCTTTGCGAGAGTTAGCAGAGGCTTGGGAGCGCCGGAGAGGCTGCGCGGTTGAGCC 870
841 GCGCTTTCTGAGAGAGGCGCCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
871 GCGCTTTCTGAGAGAGGCGCCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 930
901 GAGGAATGCTGAGAGAGGCTCAGAGATCAGGCTCCAGAGCTGAGACATATCTGACATC 960
931 GAGGAATGCTGAGAGAGGCTCAGAGATCAGGCTCCAGAGCTGAGACATATCTGACATC 990
961 CTGCGCTTCAAGCTTCAAGCGCTTCAATATGAGGAGGCTCTGACCTACCGGCTTCT 1020
991 CTGCGCTTCAAGCTTCAAGCGCTTCAATATGAGGAGGCTCTGACCTACCGGCTTCT 1050
1021 GCGGAGGAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
1051 GCGGAGGAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1110
1081 CACACCTTCTGACACCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
1111 CACACCTTCTGACACCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1170
1141 GCGGAGGAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
1171 GCGGAGGAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1230
1201 AGTCTCGGAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
1231 AGTCTCGGAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1290
1261 GCGCTGCTTTTGGGCTCTCTTTTGGCTGTCACAGGCTGCGCTTCTGTCAGATGAGA 1320
1291 GCGCTGCTTTTGGGCTCTCTTTTGGCTGTCACAGGCTGCGCTTCTGTCAGATGAGA 1350
1321 AGGCAAGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1380
1351 AGGCAAGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1410
1381 ACTGAGCTTGAAGGCTGATCTTGAAGATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1440
1411 ACTGAGCTTGAAGGCTGATCTTGAAGATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1470
1441 GAGCGCGTAACTGCTCTGCTCTGCTCATTAATGCACTTCTTTAACTGCGAAGAAAT 1500
1471 GAGCGCGTAACTGCTCTGCTCTGCTCATTAATGCACTTCTTTAACTGCGAAGAAAT 1530
1501 TTTTAAATTAATTAATTAAT 1522
1531 TTTTAAATTAATTAATTAAT 1552

RESULT 7
US-09-960-706-1080
Sequence 1080, Application US/09960706
Publication No. US20030134280A1
GENERAL INFORMATION:
APPLICANT: Manger, William B.
TITLE OF INVENTION: Identifying Drugs for and Diagnosis of Benign Prostatic Hyperplasia
FILE REFERENCE: 44921-5029-0105
CURRENT FILING DATE: 2001-09-24
PRIOR APPLICATION NUMBER: 60/223,323
PRIOR FILING DATE: 2000-08-07
PRIOR APPLICATION NUMBER: 09/873,319
PRIOR FILING DATE: 2001-06-05
NUMBER OF SEQ ID NOS: 1124
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1080
LENGTH: 1552

```
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20030134280A1 X66839
US-09-960-706-1080

Query Match      100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAGTCAGCCGATGAGTCCCTCTGTCGCCAGCCCTGAGCTCTCTGTTGATCCCGGCG 60
DB 31 ACAGTCAGCCGATGAGTCCCTCTGTCGCCAGCCCTGAGCTCTCTGTTGATCCCGGCG 90
QY 61 CCTGCTCCAGGCTCTCACTGTGCAACTGTCTGTCTCACTGTCTGTGATGCTGTCCAT 120
DB 91 CCTGCTCCAGGCTCTCACTGTGCAACTGTCTGTCTCACTGTCTGTGATGCTGTCCAT 150
QY 121 CCCGAGAGGTTGCCCCGAGATGAGAGATTCCTCTGAGAGAGGCTCTTCTGGGAGA 180
DB 151 CCCGAGAGGTTGCCCCGAGATGAGAGATTCCTCTGAGAGAGGCTCTTCTGGGAGA 210
QY 181 GATGACCACTGAGCGAGAGAGATTCGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
DB 211 GATGACCACTGAGCGAGAGAGATTCGCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
QY 241 CCACCCGAGAGAGAGATTCCTGAGAGAGAGATTCCTGAGAGAGAGATTCCTACT 300
DB 271 CCACCCGAGAGAGAGATTCCTGAGAGAGAGATTCCTGAGAGAGAGATTCCTACT 330
QY 301 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAGTTGAGAGATTCCTACTCTGT 360
DB 331 GAAGTTAAGCTTAATCAGAGAGAGAGGCTCCCTGAGTTGAGAGATTCCTACTCTGT 390
QY 361 GAGGCTCTGAGAGATTCCTCAAGAACCCAGAAATATGCCCAGAGAGAGAGAGAGAT 420
DB 391 GAGGCTCTGAGAGATTCCTCAAGAACCCAGAAATATGCCCAGAGAGAGAGAGAT 450
QY 421 GACCAAGATCATTTGGGCTATGAGAGGAGACCCGCTTGGCCCTGCTCCAGCTGCG 480
DB 451 GACCAAGATCATTTGGGCTATGAGAGGAGACCCGCTTGGCCCTGCTCCAGCTGCG 510
QY 481 GGGGGGCGCTTCAAGTCCCGGAGATATCCGGCCCACTGCGCGCTCTTGGCCGCGC 540
DB 511 GGGGGGCGCTTCAAGTCCCGGAGATATCCGGCCCACTGCGCGCTCTTGGCCGCGC 570
QY 541 CTGGCGCCCTTGAACTCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 600
DB 571 CTGGCGCCCTTGAACTCTCTGAGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 630
QY 601 AACCATGGGCAAGTGTGCACTGACCTGCTCTGAGGCTGAGATGCTCTGGGTCGC 660
DB 631 AACCATGGGCAAGTGTGCACTGACCTGCTCTGAGGCTGAGATGCTCTGGGTCGC 690
QY 661 GGGCGGAGATACCGGCTCTGAGCTGATGCACTGAGGAGGCTGAGAGTCTGCGGCG 720
DB 691 GGGCGGAGATACCGGCTCTGAGCTGATGCACTGAGGAGGCTGAGAGTCTGCGGCG 750
QY 721 TGGAGACACATGTGAGAGGCAACCGTTTCCCTGCGAGATCCACGTGTTCACCTCAGC 780
DB 751 TGGAGACACATGTGAGAGGCAACCGTTTCCCTGCGAGATCCACGTGTTCACCTCAGC 810
QY 781 ACCGCTTTGCAAGATTAAGAGAGCTTGGGGCGCCCGGAGGCTGCGCTGTGGCC 840
DB 811 ACCGCTTTGCAAGATTAAGAGAGCTTGGGGCGCCCGGAGGCTGCGCTGTGGCC 870
QY 841 GCGTTTGGAGAGAGGCGCCGAGAGAAACAGTGCCTATAGACAGTGTGCTGCTGCTG 900
DB 871 GCGTTTGGAGAGAGGCGCCGAGAGAAACAGTGCCTATAGACAGTGTGCTGCTGCTG 930
QY 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGAGTGAATCTGCTCAGTC 960
DB 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGAGTCCAGAGTGAATCTGCTCAGTC 990
```

```
QY 961 CTGCCCTTGACTTGAAGCCGCTACTTCCAAATATGAGGGGCTCTCTGACTACACCCGCTGT 1020
DB 991 CTGCCCTTGACTTGAAGCCGCTACTTCCAAATATGAGGGGCTCTCTGACTACACCCGCTGT 1050
QY 1021 GCCCAGGGGTGATCTGAGTGTGTTTAACAGAGACAGTATGATGCTTAAGAGAGCTC 1080
DB 1051 GCCCAGGGGTGATCTGAGTGTGTTTAACAGAGACAGTATGATGCTTAAGAGAGCTC 1110
QY 1081 CACACCTCTCTGACACCCCTGTGGGAGCTGTGTGACCTGTGGCTACACCTGAATTCCGA 1140
DB 1111 CACACCTCTCTGACACCCCTGTGGGAGCTGTGTGACCTGTGGCTACACCTGAATTCCGA 1170
QY 1141 GCGAGGAGCCTTTGAATGAGGCGAGTATTTAGAGCTCTCTCTGCTGAGTGAACAGC 1200
DB 1171 GCGAGGAGCCTTTGAATGAGGCGAGTATTTAGAGCTCTCTCTGCTGAGTGAACAGC 1230
QY 1201 AGTCCTGGGGCTGAGACCAAGTCCAGTGAATTCCTGCTGAGCTGTGATGACATCCGA 1260
DB 1231 AGTCCTGGGGCTGAGACCAAGTCCAGTGAATTCCTGCTGAGCTGTGATGACATCCGA 1290
QY 1261 GCCCTGTTTTTGGCTCTTTTGTGCTGCAACAGCGTGGCTTCTTGTGCAATGAGA 1320
DB 1291 GCCCTGTTTTTGGCTCTTTTGTGCTGCAACAGCGTGGCTTCTTGTGCAATGAGA 1350
QY 1321 AGGCAAGCAGAGAGGAGAACCAAGGGGCTGTGAGCTACCGCCAGAGAGATGACCGAG 1380
DB 1351 AGGCAAGCAGAGAGGAGAACCAAGGGGCTGTGAGCTACCGCCAGAGAGATGACCGAG 1410
QY 1381 ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAGAGACCAAGAGGATCTGAGGG 1440
DB 1411 ACTGAGGCTTGAAGGCTGATCTTGAAGATGTGAGAGACCAAGAGGATCTGAGGG 1470
QY 1441 GAGGCGGATACGTGCTGTCTGCTCATTAAGCCACTTCTTTTAAGTGCAGAAAT 1500
DB 1471 GAGGCGGATACGTGCTGTCTGCTCATTAAGCCACTTCTTTTAAGTGCAGAAAT 1530
QY 1501 TTTTAAATTAATTAATTAAT 1522
DB 1531 TTTTAAATTAATTAATTAAT 1552
```

```
RESULT 8
US-09-873-367C-516
; Sequence 516, Application US/09873367C
; Publication No. US20030165839A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: Soppe, Daniel
; APPLICANT: Andrees, Gregory
; APPLICANT: Augustus, Meena
; APPLICANT: Ebner, Reinhard
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE REFERENCE: 689290-64
; CURRENT APPLICATION NUMBER: US/09/873,367C
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,891
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,842
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/244,867
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: U.S. 60/245,084
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 1067
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 516
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-873-367C-516
```

Query Match 100.0%; Score 1522; DB 10; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ACAGTCAGCCGATGATGCTCCCTGTCGCCAGCCCTGCTCCTCTGTGATCCCGGCC 60
Db 31 ACAGTCAGCCGATGATGCTCCCTGTCGCCAGCCCTGCTCCTCTGTGATCCCGGCC 90
Qy 61 CTTGCTCCAGGCTCACTGTGCACTGTGTCTCACTGTCTTGTATGCTGTCCAT 120
Db 91 CTTGCTCCAGGCTCACTGTGCACTGTGTCTCACTGTCTTGTATGCTGTCCAT 150
Qy 121 CCCCAAGGTTGCCCGGATGAGAGATTCCTCCCTTGGGAGAGAGCTCTTCTGGGAA 180
Db 151 CCCCAAGGTTGCCCGGATGAGAGATTCCTCCCTTGGGAGAGAGCTCTTCTGGGAA 210
Qy 181 GATGACCACTGAGGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Db 211 GATGACCACTGAGGAGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
Qy 241 CCAACCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGATCTTACT 300
Db 271 CCAACCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGATCTTACT 330
Qy 301 GAAATTAACTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTTACTACTGTT 360
Db 331 GAAATTAACTTAATCAGAAAGAGAGGCTCCCTGAAGTTAGAGATCTTACTACTGTT 390
Qy 361 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGGACAAAGAGAGAT 420
Db 391 GAGGCTCTGAGAGATCTTCAAGAACCCAGAAATATGCCACAGGACAAAGAGAGAT 450
Qy 421 GACGAGATCTATGGGCTATGAGAGGCAACCGGCTTGGCCCGGCTGCCAGCTGC 480
Db 451 GACGAGATCTATGGGCTATGAGAGGCAACCGGCTTGGCCCGGCTGCCAGCTGC 510
Qy 481 GGGGGCGGCTTCAAGTCCCGGAGATATCCCGCCCACTGCGGCTTTCGCCCGGCC 540
Db 511 GGGGGCGGCTTCAAGTCCCGGAGATATCCCGCCCACTGCGGCTTTCGCCCGGCC 570
Qy 541 CTGCGCCCTTGAAATCTCTTGGGCTTTCAGCTCCCGGCTCCAGAACTGCGGCTGCGC 600
Db 571 CTGCGCCCTTGAAATCTCTTGGGCTTTCAGCTCCCGGCTCCAGAACTGCGGCTGCGC 630
Qy 601 AACATGCGCACAGTGTGCACTGACCTGCTCTCTGGCTAGAGATGCTCTGGCTCCC 660
Db 631 AACATGCGCACAGTGTGCACTGACCTGCTCTCTGGCTAGAGATGCTCTGGCTCCC 690
Qy 661 GGGCGGAGTACCGGCTCTGACGCTGCACTGCACTGGGGGCTGCAAGTGTCCGGGC 720
Db 691 GGGCGGAGTACCGGCTCTGACGCTGCACTGCACTGGGGGCTGCAAGTGTCCGGGC 750
Qy 721 TCGAGACACTGTGAGAGGCAACGCTTCCCTGCGAGATTCACGTTGACCTCAGC 780
Db 751 TCGAGACACTGTGAGAGGCAACGCTTCCCTGCGAGATTCACGTTGACCTCAGC 810
Qy 781 ACCGCTTTGCAAGATTGACAGAGGCTTGGGGCGCCGAGAGGCTGCGCTGTTGGCC 840
Db 811 ACCGCTTTGCAAGATTGACAGAGGCTTGGGGCGCCGAGAGGCTGCGCTGTTGGCC 870
Qy 841 GCTTTCTGAGAGAGGCGCCGAGAAACAGTGCCTATGAGAGATGTTGCTGCTGG 900
Db 871 GCTTTCTGAGAGAGGCGCCGAGAAACAGTGCCTATGAGAGATGTTGCTGCTGG 930
Qy 901 GAAAGATGCTGAGAGAGGCTCAGAGATCAGTCCAGAGATGAGACATATCTGACATC 960
Db 931 GAAAGATGCTGAGAGAGGCTCAGAGATCAGTCCAGAGATGAGACATATCTGACATC 990
Qy 961 CTGCTCTGACTTCAAGCGGCTATCTTCAATATGAGGGGCTCTGACTCAACCGGCTGT 1020
Db 991 CTGCTCTGACTTCAAGCGGCTATCTTCAATATGAGGGGCTCTGACTCAACCGGCTGT 1050

Qy 1021 GCCCAGGGTGTATCTGAGCTGTGTTTAAACAGAGATGATCTGAGTCTAAGACGTC 1080
Db 1051 GCCCAGGGTGTATCTGAGCTGTGTTTAAACAGAGATGATCTGAGTCTAAGACGTC 1110
Qy 1081 CAACCCCTCTGACACCTCTGAGGAGACTGTGTACTTGGCTACAGCTGAACCTTCCGA 1140
Db 1111 CAACCCCTCTGACACCTCTGAGGAGACTGTGTACTTGGCTACAGCTGAACCTTCCGA 1170
Qy 1141 GCGAGCGAGCTTTGAAATGGGAGATGATGAGGCTCCTTCCCTGCTGAGAGTGAACAGC 1200
Db 1171 GCGAGCGAGCTTTGAAATGGGAGATGATGAGGCTCCTTCCCTGCTGAGAGTGAACAGC 1230
Qy 1201 AGTCTCGGAGCTGAGAGCACTGACAGTGAATTCCTGCTGAGCTGAGTGAACCTCTA 1260
Db 1231 AGTCTCGGAGCTGAGAGCACTGACAGTGAATTCCTGCTGAGCTGAGTGAACCTCTA 1290
Qy 1261 GCCCTGTTTTTGGCTCTCTTTTTCCTGTCACAGCGTGCCTTCTTGTGCAATGAGA 1320
Db 1291 GCCCTGTTTTTGGCTCTCTTTTTCCTGTCACAGCGTGCCTTCTTGTGCAATGAGA 1350
Qy 1321 AGGACGACAGAAAGGAGAACCAAGGGGTGTGAGCTACCGGCCAGAGAGGTAACCGAG 1380
Db 1351 AGGACGACAGAAAGGAGAACCAAGGGGTGTGAGCTACCGGCCAGAGAGGTAACCGAG 1410
Qy 1381 ACTGAGAGCTGAGAGCTGTGAGAGATGTGAGAAAGCCAGACAGAGGCACTTGAGGG 1440
Db 1411 ACTGAGAGCTGAGAGAGCTGTGAGAGATGTGAGAAAGCCAGACAGAGGCACTTGAGGG 1470
Qy 1441 GGAGCGGTAAGTGTCTGTCTCTGCTCATTAATGCACTTCTTTTAACTGCAAGAAAT 1500
Db 1471 GGAGCGGTAAGTGTCTGTCTCTGCTCATTAATGCACTTCTTTTAACTGCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTTATTAAT 1522
Db 1531 TTTTAAATTAATTTATTAAT 1552

RESULT 9
US-09-968-007A-213
Sequence 213, Application US/09968007A
GENERAL INFORMATION:
APPLICANT: Eber, Reinhard
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signa
FILE REFERENCE: 689290-71
CURRENT APPLICATION NUMBER: US/09/968, 007A
PRIOR FILING DATE: 2001-10-02
PRIOR APPLICATION NUMBER: US/60/237, 172
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237, 173
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237, 278
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237, 294
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237, 295
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237, 316
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 1001
SOFTWARE: PatentIn version 3.0
SEQ ID NO 213
LENGTH: 1552
TYPE: DNA
ORGANISM: Homo sapiens
US-09-968-007A-213

Query Match 100.0%; Score 1522; DB 11; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ACAGTCAGCCGATGATGCTCCCTGTCGCCAGCCCTGCTCCTCTGTGATCCCGGCC 60

```
Db 1111 CACACCTCTCTGACACCTCTGAGGACCTGAGTCTCGGCTACAGCTGAATTCCGA 1170
Qy 1141 GCGACGACCTTTGAAATGAGCGAGTGAATGAGGCTCTTCCCTGCTGAGGTGACAGC 1200
Db 1171 GCGACGACCTTTGAAATGAGCGAGTGAATGAGGCTCTTCCCTGCTGAGGTGACAGC 1230
Qy 1201 AGTCTCGGAGTCTGAGGACCTGACAGTCAAGTGAATTCCTGCTGAGGTGACATCTTA 1260
Db 1231 AGTCTCGGAGTCTGAGGACCTGACAGTCAAGTGAATTCCTGCTGAGGTGACATCTTA 1290
Qy 1261 GCCCTGTTTGGGCTCTTTTGTCTGTCACAGAGTGGGCTTCTTGTGCAAGTGA 1320
Db 1291 GCCCTGTTTGGGCTCTTTTGTCTGTCACAGAGTGGGCTTCTTGTGCAAGTGA 1350
Qy 1321 AGGACGACAGAGGAGAACCAAGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1380
Db 1351 AGGACGACAGAGGAGAACCAAGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1410
Qy 1381 ACTGAGCTGAGAGGCTGAGTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1440
Db 1411 ACTGAGCTGAGAGGCTGAGTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1470
Qy 1441 GAGCGGCTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db 1471 GAGCGGCTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 10
US-10-301-822-11
; Sequence 11, Application US/10301822
; Publication No. US20030148410A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kametkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John B.
; APPLICANT: Thibodeau, Stephen J.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MP01-029P2RM
; CURRENT APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (43) ... (1422)
US-10-301-822-11

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 AAGTCAAGCGAGTCTCCCTGTCGCCAGCCCTGAGTCTCCTGTTGATCCGAGC 60
Db 1081 CACACCTCTCTGACACCTCTGAGGACCTGAGTCTCGGCTACAGCTGAATTCCGA 1140
Qy 1051 GCCCAGGGGTGATCTGAGCTGTGTTTAAACAGAGTGAATCTGAGTGAAGAGCTC 1110
Db 1081 CACACCTCTCTGACACCTCTGAGGACCTGAGTCTCGGCTACAGCTGAATTCCGA 1140
Qy 991 CTGCCCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTGTGACTACACCGCCCTGT 1050
Db 991 CTGCCCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTGTGACTACACCGCCCTGT 1050
Qy 961 CTGCCCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTGTGACTACACCGCCCTGT 1020
Db 961 CTGCCCTCTGACTTCAAGCCGCTACTTCCAAATATGAGGGGTCTGTGACTACACCGCCCTGT 1020
Qy 931 GAAAGAAATCGCTGAGGAAAGCTCAGAGTCCAGAGCTGAGATCTGCACTC 960
Db 931 GAAAGAAATCGCTGAGGAAAGCTCAGAGTCCAGAGCTGAGATCTGCACTC 960
Qy 901 GAAAGAAATCGCTGAGGAAAGCTCAGAGTCCAGAGCTGAGATCTGCACTC 960
Db 901 GAAAGAAATCGCTGAGGAAAGCTCAGAGTCCAGAGCTGAGATCTGCACTC 960
Qy 871 GCTTTCTGAGAGAGGAGCCCGGAAAGAAACAGTGCCTATGAGCACTGTGCTGCTG 930
Db 871 GCTTTCTGAGAGAGGAGCCCGGAAAGAAACAGTGCCTATGAGCACTGTGCTGCTG 930
Qy 841 GCTTTCTGAGAGAGGAGCCCGGAAAGAAACAGTGCCTATGAGCACTGTGCTGCTG 900
Db 841 GCTTTCTGAGAGAGGAGCCCGGAAAGAAACAGTGCCTATGAGCACTGTGCTGCTG 900
Qy 811 ACCGCTTTTGGCAGAGTTGACAGAGCCCTTGGGAGCCCGGAGGAGCTGTGTTGCC 870
Db 811 ACCGCTTTTGGCAGAGTTGACAGAGCCCTTGGGAGCCCGGAGGAGCTGTGTTGCC 870
Qy 781 ACCGCTTTTGGCAGAGTTGACAGAGCCCTTGGGAGCCCGGAGGAGCTGTGTTGCC 840
Db 781 ACCGCTTTTGGCAGAGTTGACAGAGCCCTTGGGAGCCCGGAGGAGCTGTGTTGCC 840
Qy 751 TCGGAGCACTGTGAGGAGCCAGCTTCCCTGCGAGATCCAGTGTGTTCACTCAGC 810
Db 751 TCGGAGCACTGTGAGGAGCCAGCTTCCCTGCGAGATCCAGTGTGTTCACTCAGC 810
Qy 721 TCGGAGCACTGTGAGGAGCCAGCTTCCCTGCGAGATCCAGTGTGTTCACTCAGC 780
Db 721 TCGGAGCACTGTGAGGAGCCAGCTTCCCTGCGAGATCCAGTGTGTTCACTCAGC 780
Qy 691 GGGCGGAGTACCGGAGCTCTGAGCTGCACTGAGTGGGAGCTGAGTGTCCGAGC 750
Db 691 GGGCGGAGTACCGGAGCTCTGAGCTGCACTGAGTGGGAGCTGAGTGTCCGAGC 750
Qy 661 GGGCGGAGTACCGGAGCTCTGAGCTGCACTGAGTGGGAGCTGAGTGTCCGAGC 720
Db 661 GGGCGGAGTACCGGAGCTCTGAGCTGCACTGAGTGGGAGCTGAGTGTCCGAGC 720
Qy 631 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGAGGAGTGTGCTGTGCTGCC 660
Db 631 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGAGGAGTGTGCTGTGCTGCC 660
Qy 601 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGAGGAGTGTGCTGTGCTGCC 660
Db 601 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGAGGAGTGTGCTGTGCTGCC 660
Qy 571 CTGCCCTCTGAGTCTGAGGAGCTGCTGAGTGTGCTGAGTGTGCTGAGTGTGCTGAG 630
Db 571 CTGCCCTCTGAGTCTGAGGAGCTGCTGAGTGTGCTGAGTGTGCTGAGTGTGCTGAG 630
Qy 541 CTGCCCTCTGAGTCTGAGGAGCTGCTGAGTGTGCTGAGTGTGCTGAGTGTGCTGAG 600
Db 541 CTGCCCTCTGAGTCTGAGGAGCTGCTGAGTGTGCTGAGTGTGCTGAGTGTGCTGAG 600
Qy 511 GGGGCGGCTTCAAGTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 570
Db 511 GGGGCGGCTTCAAGTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 570
Qy 481 GGGGCGGCTTCAAGTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 540
Db 481 GGGGCGGCTTCAAGTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 540
Qy 451 GACCAAGAGTCAATGGGCTATGAGGAGCCAGCCCTGAGGCTGCTGCCAGCTGAGC 510
Db 451 GACCAAGAGTCAATGGGCTATGAGGAGCCAGCCCTGAGGCTGCTGCCAGCTGAGC 510
Qy 421 GACCAAGAGTCAATGGGCTATGAGGAGCCAGCCCTGAGGCTGCTGCCAGCTGAGC 480
Db 421 GACCAAGAGTCAATGGGCTATGAGGAGCCAGCCCTGAGGCTGCTGCCAGCTGAGC 480
Qy 391 GAGGCTCTGAGAGTCTTCAAGAACCCAGAAATATGCCACAGGAGCAAGAGGAGAT 450
Db 391 GAGGCTCTGAGAGTCTTCAAGAACCCAGAAATATGCCACAGGAGCAAGAGGAGAT 450
Qy 361 GAGGCTCTGAGAGTCTTCAAGAACCCAGAAATATGCCACAGGAGCAAGAGGAGAT 420
Db 361 GAGGCTCTGAGAGTCTTCAAGAACCCAGAAATATGCCACAGGAGCAAGAGGAGAT 420
Qy 331 GAAATTAAAGCTTAAATCAGAGAGAGGAGCTCCCTGAAATTAGAGATCTTACTCTGT 390
Db 331 GAAATTAAAGCTTAAATCAGAGAGAGGAGCTCCCTGAAATTAGAGATCTTACTCTGT 390
Qy 301 GAAATTAAAGCTTAAATCAGAGAGAGGAGCTCCCTGAAATTAGAGATCTTACTCTGT 360
Db 301 GAAATTAAAGCTTAAATCAGAGAGAGGAGCTCCCTGAAATTAGAGATCTTACTCTGT 360
Qy 271 CCAACCCGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 330
Db 271 CCAACCCGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 330
Qy 241 CCAACCCGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 300
Db 241 CCAACCCGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 300
Qy 211 GATGACCACTGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 270
Db 211 GATGACCACTGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 270
Qy 181 GATGACCACTGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 240
Db 181 GATGACCACTGAGAGAGATCTTACCTGAGAGAGATCTTACCTGAGAGAGATCTTACTCTGT 240
Qy 151 CCCGAGAGGTTGCCCCGAGTGAAGAGATCTTCCCTTGGAGAGAGGCTCTTCTGGAGAA 210
Db 151 CCCGAGAGGTTGCCCCGAGTGAAGAGATCTTCCCTTGGAGAGAGGCTCTTCTGGAGAA 210
Qy 121 CCCGAGAGGTTGCCCCGAGTGAAGAGATCTTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
Db 121 CCCGAGAGGTTGCCCCGAGTGAAGAGATCTTCCCTTGGAGAGAGGCTCTTCTGGAGAA 180
Qy 91 CTTGCTCCAGAGGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 150
Db 91 CTTGCTCCAGAGGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 150
```

```

Db      31  AAGATCAGCCGAGTGGCTCCCTGTCGCCAGCCCTGGCTCCCTGTTGATCCCGGCC  90
Qy      61  CCGGCTCAGGCGCTCACTGGAACCTGCTGTCACTGCTGCTTCAATGCTGTCAT  120
Db      91  CCGCTCCAGGCGCTCACTGGAACCTGCTGTCACTGCTGCTTCAATGCTGTCAT  150
Qy     121  CCCCAAGAGTTGCCCCGAGTGCAGAGAGATTTCCCTTGGAGAGAGCTCTTCTGGGGA  180
Db     151  CCCCAAGAGTTGCCCCGAGTGCAGAGAGATTTCCCTTGGAGAGAGCTCTTCTGGGGA  210
Qy     181  GATGACCACTGAGGCGAGAGATCTGCCAGTGAAGAGATTTCACTCCAGAGAGAGAT  240
Db     211  GATGACCACTGAGGCGAGAGATCTGCCAGTGAAGAGATTTCACTCCAGAGAGAGAT  270
Qy     241  CACCCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTACCT  300
Db     271  CACCCCGAGAGAGAGATCTTACCTGAGAGAGAGATCTTACCTGAGAGAGAGATCTACCT  330
Qy     301  GAAAGTTAAGCTTAATCAGAGAGAGAGAGCTCCCTGAGTTAGAGATCTTACTACTGT  360
Db     331  GAAAGTTAAGCTTAATCAGAGAGAGAGAGCTCCCTGAGTTAGAGATCTTACTACTGT  390
Qy     361  GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCCACAGGACAAAGAGAGAT  420
Db     391  GAGGCTCTGAGAGATCTCAAGAACCCAGAAATATGCCCCACAGGACAAAGAGAGAT  450
Qy     421  GACCAAGATCTTGGGCTTATGAGAGGCGACCCGCTTGGCTCCCGGGTCTCCCAAGCTTC  480
Db     451  GACCAAGATCTTGGGCTTATGAGAGGCGACCCGCTTGGCTCCCGGGTCTCCCAAGCTTC  510
Qy     481  GGGGCGGCTTCAAGTCCCGGCTGATTCGCGCCCGCAGCTGCGGCTTCTGCGCGGCC  540
Db     511  GGGGCGGCTTCAAGTCCCGGCTGATTCGCGCCCGCAGCTGCGGCTTCTGCGCGGCC  570
Qy     541  CTGGCGCCCTTGAATCTCTGAGCTTCAAGCTTCCGCGCGCTCCAGAACTGCGCGCTGCG  600
Db     571  CTGGCGCCCTTGAATCTCTGAGCTTCAAGCTTCCGCGCGCTCCAGAACTGCGCGCTGCG  630
Qy     601  AACATGCGCAAGTGTGCACTGACCCCTGCTCTGGGCTTGAAGATGCTCTGGGTCCC  660
Db     631  AACATGCGCAAGTGTGCACTGACCCCTGCTCTGGGCTTGAAGATGCTCTGGGTCCC  690
Qy     661  GGGGCGGAGTACCGGCGCTCTGAGCTGCACTGCACTGGGCGGCTGCAAGTGTGCGGCG  720
Db     691  GGGGCGGAGTACCGGCGCTCTGAGCTGCACTGCACTGGGCGGCTGCAAGTGTGCGGCG  750
Qy     721  TCGAGCACTGTGGAAGGCAACCGTTTCCCTGCCAGATCAACGTGTTCACTCAAC  780
Db     751  TCGAGCACTGTGGAAGGCAACCGTTTCCCTGCCAGATCAACGTGTTCACTCAAC  810
Qy     781  ACCGCTTTGCGAGATTCAGAGGCTTGGGGCGCCCGGAGAGCTTGGCGCTGTTGGCC  840
Db     811  ACCGCTTTGCGAGATTCAGAGGCTTGGGGCGCCCGGAGAGCTTGGCGCTGTTGGCC  870
Qy     841  GCTTTCTGAGAGAGGCGCCGAGAAACAGTGCCTATGAGAGATGCTGCTGCTGG  900
Db     871  GCTTTCTGAGAGAGGCGCCGAGAAACAGTGCCTATGAGAGATGCTGCTGCTGG  930
Qy     901  GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGAGTCCAGAGATCAGATCTGCACTC  960
Db     931  GAAAGAAATGCTGAGAGAGGCTCAGAGATCAGAGTCCAGAGATCAGATCTGCACTC  990
Qy     961  CTGGCTCTGACTTCAAGCGGCTACTTCAATATGAGGGGTCTCTGACTCAACCGCTGT  1020
Db     991  CTGGCTCTGACTTCAAGCGGCTACTTCAATATGAGGGGTCTCTGACTCAACCGCTGT  1050
Qy    1021  GCCCAAGGAGTCACTGAGCTGTGTTAACAGACAGTATGCTGAGCTCAACCGCTGT  1080
Db    1051  GCCCAAGGAGTCACTGAGCTGTGTTAACAGACAGTATGCTGAGCTCAACCGCTGT  1110
Qy    1081  CACACCTCTCTGACACCTCTGTGGGAGCTGTGATCTCTGAGCTCAACCTTCCGA  1140
Db    1111  CACACCTCTCTGACACCTCTGTGGGAGCTGTGATCTCTGAGCTCAACCTTCCGA  1170

```

```

Qy    1141  GCGACGAGCCTTTGATATGGGAGATTTAGAGGCTCTTCCCTGCTGAGTGAACAG  1200
Db    1171  GCGACGAGCCTTTGATATGGGAGATTTAGAGGCTCTTCCCTGCTGAGTGAACAG  1230
Qy    1201  AGTCTCGGAGCTGAGAGCACTGCAAGTGAATTCCTGCTGAGCTGCTGATCTTA  1260
Db    1231  AGTCTCGGAGCTGAGAGCACTGCAAGTGAATTCCTGCTGAGCTGCTGATCTTA  1290
Qy    1261  GCGCTGTTTGGCTCTCTTTTGGCTGTCACAGAGCTGAGCTTCTTGTGAGATGA  1320
Db    1291  GCGCTGTTTGGCTCTCTTTTGGCTGTCACAGAGCTGAGCTTCTTGTGAGATGA  1350
Qy    1321  AGCGACAGAGAGGAGAACCAAGGGGTTGAGCTACCGCCAGAGAGGTAAGCCAG  1380
Db    1351  AGCGACAGAGAGGAGAACCAAGGGGTTGAGCTACCGCCAGAGAGGTAAGCCAG  1410
Qy    1381  ACTGAGCCTAGAGGCTGATCTTGAAGATGGAAGCCAGACAGAGGATCTGAGG  1440
Db    1411  ACTGAGCCTAGAGGCTGATCTTGAAGATGGAAGCCAGACAGAGGATCTGAGG  1470
Qy    1441  GAGCGCGTAACTGTCTGCTCTGCTCATTTAGCACTTCTTTTAACTGCCAAGAA  1500
Db    1471  GAGCGCGTAACTGTCTGCTCTGCTCATTTAGCACTTCTTTTAACTGCCAAGAA  1530
Qy    1501  TTTTAAATTAATTTTAAAT  1522
Db    1531  TTTTAAATTAATTTTAAAT  1552

```

```

RESULT 11
US-10-465-572-9
; Sequence 9, Application US/10465572
; Publication No. US20030207840A1
; GENERAL INFORMATION:
; APPLICANT: Riggins, Gregory
; APPLICANT: Lal, Anita
; TITLE OF INVENTION: GENES INDUCED BY HYPOXIA
; FILE REFERENCE: 000250, 00012
; CURRENT APPLICATION NUMBER: US/10/465,572
; PRIOR FILING DATE: 2003-06-20
; PRIOR APPLICATION NUMBER: US/10/201,642
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/307,600
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-465-572-9

```

```

Query Match      100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  AAGTCAAGCCGATGAGCTTCCCTGTGCCCCAGCCCTTGGCTCTCTGTTGATCCCGGCC  60
Db      31  AAGTCAAGCCGATGAGCTTCCCTGTGCCCCAGCCCTTGGCTCTCTGTTGATCCCGGCC  90
Qy      61  CCGTCTCAGAGGCTCACTGTGCACTGTGCTGTGCACTGTGCTTCTGATGCTGTCAT  120
Db      91  CCGTCTCAGAGGCTCACTGTGCACTGTGCTGTGCACTGTGCTTCTGATGCTGTCAT  150
Qy     121  CCCCAAGAGTTGCCCCGAGTGCAGAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGGA  180
Db     151  CCCCAAGAGTTGCCCCGAGTGCAGAGAGATTTCCCTTGGAGAGAGGCTCTTCTGGGGA  210
Qy     181  GATGACCACTGAGGCGAGAGATCTGCCAGTGAAGAGATTTCACTCCAGAGAGAGAT  240
Db     211  GATGACCACTGAGGCGAGAGATCTGCCAGTGAAGAGATTTCACTCCAGAGAGAGAT  270

```

OY	241	CCACC	CGGAGAGAGAGATCTACCTGGAGAGAGATCTACCTGGAGAGAGAGATCTACCT	300
Db	271	CCACC	CGGAGAGAGAGATCTACCTGGAGAGAGAGATCTACCTGGAGAGAGAGATCTACCT	330
OY	301	GAA	GTTAAAGCTTAAATCAGAGAGAGAGGCTCCCTGAGTTAGAGATCTACCTACTGTT	360
Db	331	GAA	GTTAAAGCTTAAATCAGAGAGAGAGGCTCCCTGAGTTAGAGATCTACCTACTGTT	390
OY	361	GAG	GCTCCCTGGAGATCTCTAAGAAACCCCAAGATTAATGCCCAAGGGACAAAGAGGGAGT	420
Db	391	GAG	GCTCCCTGGAGATCTCTAAGAAACCCCAAGATTAATGCCCAAGGGACAAAGAGGGAGT	450
OY	421	GAC	CAGAGTCATTTGGCGTTATGAGGCGAACCCGCTGGCCCCCGGGTGTCCCAAGCTGAC	480
Db	451	GAC	CAGAGTCATTTGGCGTTATGAGGCGAACCCGCTGGCCCCCGGGTGTCCCAAGCTGAC	510
OY	481	GCG	GGGCGCGGTTCACAGTCCCGGCTGATATCCGCGCCCAAGTGGCGGCTTCTGCCCCGAC	540
Db	511	GCG	GGGCGCGGTTCACAGTCCCGGCTGATATCCGCGCCCAAGTGGCGGCTTCTGCCCCGAC	570
OY	541	CTG	CGCCCCCTGGAATCTCTGGGGCTTCCAGCTCCCGCGCTCCAGAACTGCGGCTGCGC	600
Db	571	CTG	CGCCCCCTGGAATCTCTGGGGCTTCCAGCTCCCGCGCTCCAGAACTGCGGCTGCGC	630
OY	601	AA	CAATGCGCACAAGTGTGCACTGACCTGCTCTTGCGCTAGAGATGCGTCTGCGATCCC	660
Db	631	AA	CAATGCGCACAAGTGTGCACTGACCTGCTCTTGCGCTAGAGATGCGTCTGCGATCCC	690
OY	661	GGG	CGGAGAGTACCGGGCTCTGAGCTGTCAGACTGGGGGGGCTGCAAGTGTCCGGGC	720
Db	691	GGG	CGGAGAGTACCGGGCTCTGAGCTGTCAGACTGGGGGGGCTGCAAGTGTCCGGGC	750
OY	721	TCG	AGACACACTGTGAGAAAGGCCACCGTTCCTCTGCGAGATCCAGTGTTCACCTCAGC	780
Db	751	TCG	AGACACACTGTGAGAAAGGCCACCGTTCCTCTGCGAGATCCAGTGTTCACCTCAGC	810
OY	781	ACC	GCGCTTGGCCAGAGTTGACGAGCGCTTGGGGCGCCGGGAGGCTGGCCGCTGTGTGGCC	840
Db	811	ACC	GCGCTTGGCCAGAGTTGACGAGCGCTTGGGGCGCCGGGAGGCTGGCCGCTGTGTGGCC	870
OY	841	GCT	TTCTGAGAGAGGGGCCCGAAGAAAAACATGCTATGAGACAGTTGCTGTCTGCTGTG	900
Db	871	GCT	TTCTGAGAGAGGGGCCCGAAGAAAAACATGCTATGAGACAGTTGCTGTCTGCTGTG	930
OY	901	GAA	GAAATATCGCTGAGAGAGGCTCAGAGACTCAGGTTCCAGAGCTGACATATCTGCATCC	960
Db	931	GAA	GAAATATCGCTGAGAGAGGCTCAGAGACTCAGGTTCCAGAGCTGACATATCTGCATCC	990
OY	961	CTG	CGCTCTGACCTTACGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGGCTGT	1020
Db	991	CTG	CGCTCTGACCTTACGCGGCTACTTCCAAATATGAGGGGTCTCTGACTACACCGGCTGT	1050
OY	1021	GCC	CAGGGGTTCATCTGACCTGTGTTTAAACAGACAGTATGCTAGTGTCTAAGCAGCTC	1080
Db	1051	GCC	CAGGGGTTCATCTGACCTGTGTTTAAACAGACAGTATGCTAGTGTCTAAGCAGCTC	1110
OY	1081	CAC	ACCTCTCTGACACCTGTGGGGACCTGGTGACTCTCGGCTACAGCTGAATCTTCGA	1140
Db	1111	CAC	ACCTCTCTGACACCTGTGGGGACCTGGTGACTCTCGGCTACAGCTGAATCTTCGA	1170
OY	1141	GCG	AGCAGCCTTTGAATGAGGCGAGTGAATTGAGGCTCTCTTCCCTGTCTGAGTGAAGAC	1200
Db	1171	GCG	AGCAGCCTTTGAATGAGGCGAGTGAATTGAGGCTCTCTTCCCTGTGTGAGTGAAGAC	1230
OY	1201	AGT	CTTGGGCGTGTGAGCTCAAGTCAATTTCTGCTGTGGCTGTGTGTATCTCTA	1260
Db	1231	AGT	CTTGGGCGTGTGAGCTCAAGTCAATTTCTGCTGTGGCTGTGTGTATCTCTA	1290
OY	1261	GCC	CTGTGTTTGGCTCTCTTTTCTGTCAACAGAGTGTGCGTTCTTGTGAGATGAGA	1320
Db	1291	GCC	CTGTGTTTGGCTCTCTTTTCTGTCAACAGAGTGTGCGTTCTTGTGAGATGAGA	1350
OY	1321	AGG	CACACAGAAAGGGAAACAAAGGGGCTGTAGACTCCGCCACAGAGAGTACCGAG	1380

Db	1351	AGGAGCAGCAGAGAGGGGAAACCAAGGGGGGTGTGACATACGGCCAGCAGAGGTAGCCGAG	1410
Qy	1381	ACTGAGGCTTAGAGGCTGATCTTTGAGAAATGTGAGAAGCCAGCCAGGCGATCTGAGGG	1440
Db	1411	ACTGAGGCTTAGAGGCTGATCTTTGAGAAATGTGAGAAGCCAGCCAGAGGATCTGAGGG	1470
Qy	1441	GGAGCCGGTAACTGTCTCTCTGCTCATTATGCACTCTCTTTAACTGCCAGAAATT	1500
Db	1471	GGAGCCGGTAACTGTCTCTCTCTCATTATGCACTCTCTTTAACTGCCAGAAATT	1530
Qy	1501	TTTTAAATTAATATTATTAAT	1522
Db	1531	TTTTAAATTAATATTATTAAT	1552

```

RESULT 12
US-10-172-118-574
; Sequence 574, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernardi, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 574
; LENGTH: 1552
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM 001216
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-574

```

Query Match	100.0%;	Score 1522;	DB 15;	Length 1552;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1522; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

Oy	1	ACAGTCAGGCGGATGAGCTCCCTGTGGCCCAAGCCCTTGAGCTCCCTGTGGATCCGGGC	60
Db	31	ACAGTCAGGCGGATGAGCTCCCTGTGGCCCAAGCCCTTGAGCTCCCTGTGGATCCGGGC	90
Oy	61	CGTCTCAAGGCTCACTGTGCACTGCTGTGTCACTGCTGCTTGTGATGCTGTCCAT	120
Db	91	CGTCTCAAGGCTCACTGTGCACTGCTGTGTCACTGCTGCTTGTGATGCTGTCCAT	150
Oy	121	CCCGAAGGTTCCCGGATGCGAGAGATTCCTCCCTTGAGAGAGGCTTTTCGGGGAA	180
Db	151	CCCGAAGGTTCCCGGATGCGAGAGATTCCTCCCTTGAGAGAGGCTTTTCGGGGAA	210
Oy	181	GATGATCCCACTGGGCGAGAGAGATTTGCCAGTGAAGAGATTCACCAGAGAGAGAT	240
Db	211	GATGATCCCACTGGGCGAGAGAGATTTGCCAGTGAAGAGATTCACCAGAGAGAGAT	270
Oy	241	CCACCCGAGAGAGAGATCTACCTGGAAGAGAGATCTACCTGAGAGAGAGATCTACCT	300
Db	271	CCACCCGAGAGAGAGATCTACCTGGAAGAGAGATCTACCTGAGAGAGAGATCTACCT	330
Oy	301	GAAGTTAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACCTGTT	360
Db	331	GAAGTTAGCTTAATCAAGAGAGAGGCTCCCTGAAGTTAGAGATCTACCTACCTGTT	390

361 GAGGCTCTGAGATCTCAAGAACCCAGAAATATGCCCACAGGAGCAAGAGGGAT 420
391 GAGGCTCTGAGATCTCTCAAGAACCCAGAAATATGCCCACAGGAGCAAGAGGGAT 450
421 GACCAAGTCTATGCGCTATGAGAGGAGCCGCGCTGAGCCCGGGGTGCTCCAGCTGC 480
451 GACCAAGTCTATGCGCTATGAGAGGAGCCGCGCTGAGCCCGGGGTGCTCCAGCTGC 510
481 GGGGCGCGCTTCAAGTCCCGGATATCCGCCCCAGCTGCGCGCTTCTGCGCGGC 540
511 GGGGCGCGCTTCAAGTCCCGGATATCCGCCCCAGCTGCGCGCTTCTGCGCGGC 570
541 CTGCGCCCCCTTGAACTCTTGAGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCGCTGC 600
571 CTGCGCCCCCTTGAACTCTTGAGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCGCTGC 630
601 AACAAATGCGCAAGTGTGCACTGACCTGCTCTGCGCTTGAAGATGCTCTGGGTCCC 660
631 AACAAATGCGCAAGTGTGCACTGACCTGCTCTGCGCTTGAAGATGCTCTGGGTCCC 690
661 GGGGCGGAGTACCGGCGCTGAGAGCTGCACTGAGGGGGGCTGCAAGTGTGCGCGGC 720
691 GGGGCGGAGTACCGGCGCTGAGAGCTGCACTGAGGGGGGCTGCAAGTGTGCGCGGC 750
721 TCGGAGCACTGTGGAAGGCGCACCGCTTCCCTGCGAGATCCAGTGTGCTCACTCAGC 780
751 TCGGAGCACTGTGGAAGGCGCACCGCTTCCCTGCGAGATCCAGTGTGCTCACTCAGC 810
781 ACCGCTTTTGCAGAGTTGACAGAGGCTTGGGAGCGCCGCGAGAGGCTGCGCTGTGGCC 840
811 ACCGCTTTTGCAGAGTTGACAGAGGCTTGGGAGCGCCGCGAGAGGCTGCGCTGTGGCC 870
841 GCTTTTGGAGAGAGGCGCGGAGAAACAGTGCCTATGAGACAGTGTGCTGCGCTGG 900
871 GCTTTTGGAGAGAGGCGCGGAGAAACAGTGCCTATGAGACAGTGTGCTGCGCTGG 930
901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGACATCTGCACTC 960
931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGACATCTGCACTC 990
961 CTGCGCTCTGACTTACGCGCTACTTCAAAATGAGGGGTCTCTGACTACACCGCGCTGT 1020
991 CTGCGCTCTGACTTACGCGCTACTTCAAAATGAGGGGTCTCTGACTACACCGCGCTGT 1050
1021 GCGGAGGAGTCTGAGCTGAGCTGTGTTAACAGACAGTATGCTAGGCTTAAAGAGCTC 1080
1051 GCGGAGGAGTCTGAGCTGAGCTGTGTTAACAGACAGTATGCTAGGCTTAAAGAGCTC 1110
1081 CACACCTCTCTGACACCTCTGAGGAGCTGAGTGAACCTGAGCTACAGCTGAATCTTCCGA 1140
1111 CACACCTCTCTGACACCTCTGAGGAGCTGAGTGAACCTGAGCTACAGCTGAATCTTCCGA 1170
1141 GCGAGCGAGCTTTGAAATGAGGAGGATGATGAGGCTCTCTCTGCTGAGTGAACGAC 1200
1171 GCGAGCGAGCTTTGAAATGAGGAGGATGATGAGGCTCTCTCTGCTGAGTGAACGAC 1230
1201 AGTCTCTGAGGCTGCTGAGGAGCTGAGTGAATCTGCTGCTGCTGCTGCTGCTGCTGA 1260
1231 AGTCTCTGAGGCTGCTGAGGAGCTGAGTGAATCTGCTGCTGCTGCTGCTGCTGCTGA 1290
1261 GCGCTGCTTTTGGGCTCTTTTGGCTGCTGACAGAGTGCCTTCTTGTGAGATGAGA 1320
1291 GCGCTGCTTTTGGGCTCTTTTGGCTGCTGACAGAGTGCCTTCTTGTGAGATGAGA 1350
1321 AGGCAAGCAGAGAGGAGGAGCAAGAGGAGTGTGAGCTACCGCCAGCAGAGGTAGCCGAG 1380
1351 AGGCAAGCAGAGAGGAGGAGCAAGAGGAGTGTGAGCTACCGCCAGCAGAGGTAGCCGAG 1410
1381 ACTGAGCTTAAAGAGGCTGATCTTGAAGATGTGAGAGCCAGCCAGAGGATCTGAAGG 1440
1411 ACTGAGCTTAAAGAGGCTGATCTTGAAGATGTGAGAGCCAGCCAGAGGATCTGAAGG 1470
1441 GAGAGCGGTAAGTGTCTGTCTGTCTGCTCATTAAGCCACTTCTTTTAACGCCAAGAAATT 1500

Db 1471 GAGGCGGTAAGTGTCTGTCTGTCTGCTCATTAAGCCACTTCTTTAAGCCAAGAAATT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 13
US-10-388-360-291
Sequence 291, Application US/10388360
General Information:
Applicant: GENOMIC HEALTH
Applicant: Baker, Joffrey B.
Applicant: Cronin, Maureen T.
Applicant: Klefer, Michael C.
Applicant: Shak, Steve
Applicant: Walker, Michael Graham
Title of Invention: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
File Reference: 39740-0001US
Current Application Number: US/10/388,360
Current Filing Date: 2003-03-12
Prior Application Number: US 60/412,049
Prior Filing Date: 2002-09-18
Prior Application Number: US 60/364,890
Prior Filing Date: 2002-03-13
Number of SEQ ID NOS: 384
Software: FastSeq for Windows Version 4.0
SEQ ID NO 291
Length: 1552
Type: DNA
Organism: Homo sapiens
US-10-388-360-291

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACATCAGCCGATAGGCTCCCTGTCGCCCCAGCCCTGAGCTCCCTGTGATCCCGGCG 60
Db 31 AACATCAGCCGATAGGCTCCCTGTCGCCCCAGCCCTGAGCTCCCTGTGATCCCGGCG 90
Qy 61 CCGTCCAGGCGCTCACTGTGCACTGTGCTGCTCACTGCTCTGATGCTGCTCAT 120
Db 91 CCGTCCAGGCGCTCACTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTCAT 150
Qy 121 CCCAGAGGTTGCCCGGATGAGAGGATTTCCCTTGGAGAGAGGCTTTCTGGGAA 180
Db 151 CCCAGAGGTTGCCCGGATGAGAGGATTTCCCTTGGAGAGAGGCTTTCTGGGAA 210
Qy 181 GATGACCACTGAGGAGAGGATTTGCCCACTGAAGAGATTCAACCCAGAGAGAGAT 240
Db 211 GATGACCACTGAGGAGAGGATTTGCCCACTGAAGAGATTCAACCCAGAGAGAGAT 270
Qy 241 CCACCGGAGAGGAGATCTACCTGAGAGAGATCTACCTGAGAGAGGATCTACT 300
Db 271 CCACCGGAGAGGAGATCTACCTGAGAGAGATCTACCTGAGAGAGGATCTACT 330
Qy 301 GAAGTTAAGCCCTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 360
Db 331 GAAGTTAAGCCCTAATCAGAGAGAGGCTCCCTGAAGTTAGAGATCTACTGTT 390
Qy 361 GAGGCTCTGAGATCTCAGAGAGCCCAAGTAATGCCCACAGGAGCAAGAGAGGAT 420
Db 391 GAGGCTCTGAGATCTCAGAGAGCCCAAGTAATGCCCACAGGAGCAAGAGAGGAT 450
Qy 421 GACCAAGTCTATGCGCTATGAGAGGAGCCGCGCTGAGCCCGGGGTGCTCCAGCTGC 480
Db 451 GACCAAGTCTATGCGCTATGAGAGGAGCCGCGCTGAGCCCGGGGTGCTCCAGCTGC 510
Qy 481 GCGGCGCGCTTCAAGTCCCGGATATCCGCCCCAGCTGCGCGCTTCTGCGCGGC 540

511 GCGGCGCGCTTCAAGTCCCCGGTGAATCCGCCCCCAAGCTGCGCGCTTCTGCCCCGCC 570
541 CTGCGCCCCCTTGAAATCTCTGAGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCGCTGCGC 600
571 CTGCGCCCCCTTGAAATCTCTGAGCTTCCAGCTCCGCGCGCTCCAGAACTGCGCGCTGCGC 630
601 AACAAATGCGCAAGTGTGCACTGACCCCTGCTCTGAGGCTAGAGATGCTCTGAGGCTCC 660
631 AACAAATGCGCAAGTGTGCACTGACCCCTGCTCTGAGGCTAGAGATGCTCTGAGGCTCC 690
661 GGGCGGGAATACCGGGCTGTGAGCTGATCTGCACTGGGGGGCTGAGAGTGTCCGGCC 720
691 GGGCGGGAATACCGGGCTGTGAGCTGATCTGCACTGGGGGGCTGAGAGTGTCCGGCC 750
721 TCGAGCACTGTGGAAGGCAACGCTTTCCTGCGAGATCCAGGTGTTCACTCACTGAC 780
751 TCGAGCACTGTGGAAGGCAACGCTTTCCTGCGAGATCCAGGTGTTCACTCACTGAC 810
781 ACCGCTTTGCGAAGTTGACAGAGGCTTTGGGGCGCGCGGAGGCTGCGCTGTTGGCC 840
811 ACCGCTTTGCGAAGTTGACAGAGGCTTTGGGGCGCGCGGAGGCTGCGCTGTTGGCC 870
841 GCGCTTTGGAAGAGGGCCCGAAGAAACAGTGCCTATGAGCAGTTGCTGTGCTGCTG 900
871 GCGCTTTGGAAGAGGGCCCGAAGAAACAGTGCCTATGAGCAGTTGCTGTGCTGCTG 930
901 GAAAGAAATCGTAGAGAAAGGCTCAAGACTGAGTCCAGAGCTGAGCAATATCTGCACTC 960
931 GAAAGAAATCGTAGAGAAAGGCTCAAGACTGAGTCCAGAGCTGAGCAATATCTGCACTC 990
961 CTGCGCTGTGACTTCAAGCGGCTACTTCCAAATATGAGGGGCTCTGACTACACCGCGCTGT 1020
991 CTGCGCTGTGACTTCAAGCGGCTACTTCCAAATATGAGGGGCTCTGACTACACCGCGCTGT 1050
1021 GCCCAGGGGTGATCTGAGCTGATGTTTAAACAGACAGTGAATCTGAGGCTAAGCAGCTC 1080
1051 GCCCAGGGGTGATCTGAGCTGATGTTTAAACAGACAGTGAATCTGAGGCTAAGCAGCTC 1110
1081 CACACCTCTCTGACACCCCTGTGAGGAGCCTGTGTACTCTGCGCTACAGTGAATCTTCCGA 1140
1111 CACACCTCTCTGACACCCCTGTGAGGAGCCTGTGTACTCTGCGCTACAGTGAATCTTCCGA 1170
1141 GCGAGCGAGCCTTTGATATGAGGAGTGAATGAGGCTCTTCTGCTGAGATGAGCAGC 1200
1171 GCGAGCGAGCCTTTGATATGAGGAGTGAATGAGGCTCTTCTGCTGAGATGAGCAGC 1230
1201 AGTCCCTCGGGCTGTGAGCAGTCAAGCTGAATTCCTGCTGAGGCTGAGTGAATCTTCA 1260
1231 AGTCCCTCGGGCTGTGAGCAGTCAAGCTGAATTCCTGCTGAGGCTGAGTGAATCTTCA 1290
1261 GCGCTGTGTTTGGCTCTCTTTTTCCTGTACACAGCGTCCGCTTCTTGTGCAATGAGA 1320
1291 GCGCTGTGTTTGGCTCTCTTTTTCCTGTACACAGCGTCCGCTTCTTGTGCAATGAGA 1350
1321 AGGCGACACAGAAAGGGAGAACAAAGGGGCTGTGACTACCGCCAGAGAGATGAGCCGAG 1380
1351 AGGCGACACAGAAAGGGAGAACAAAGGGGCTGTGACTACCGCCAGAGAGATGAGCCGAG 1410
1381 ACTGAGCCTAGAGGCTGGATCTTGAAGATGTGAAGAGCAGCAGAGAGGATCTGAGGG 1440
1411 ACTGAGCCTAGAGGCTGGATCTTGAAGATGTGAAGAGCAGCAGAGAGGATCTGAGGG 1470
1441 GAGAGCGGTAATCTGTCTGTCTGTCTCATTAATGCACTTCTTTTAACTGCGCAAGAAAT 1500
1471 GAGAGCGGTAATCTGTCTGTCTGTCTCATTAATGCACTTCTTTTAACTGCGCAAGAAAT 1530
1501 TTTTAAATTAATTAATTAAT 1522
1531 TTTTAAATTAATTAATTAAT 1552

RESULT 14
US-10-295-027-305

Sequence 305, Application US/10295027
Publication No. US20030232350A1
GENERAL INFORMATION:
APPLICANT: Afar, Daniel
APPLICANT: Aziz, Natasha
APPLICANT: Gineberg, Wendy M.
APPLICANT: Glah, Kurt C.
APPLICANT: Glyne, Richard
APPLICANT: Hevez, Peter A.
APPLICANT: Mack, David H.
APPLICANT: Murray, Richard
APPLICANT: Watson, Susan R.
APPLICANT: Eos Biotechnology, Inc.
TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
FILE REFERENCE: 018501-012500US
CURRENT APPLICATION NUMBER: US/10/295,027
CURRENT FILING DATE: 2002-11-13
PRIOR APPLICATION NUMBER: US 09/663,733
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/350,666
PRIOR FILING DATE: 2001-11-13
PRIOR APPLICATION NUMBER: US 60/335,394
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: US 60/332,464
PRIOR FILING DATE: 2001-11-21
PRIOR APPLICATION NUMBER: US 60/334,393
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: US 60/340,376
PRIOR FILING DATE: 2001-12-14
PRIOR APPLICATION NUMBER: US 60/347,211
PRIOR FILING DATE: 2002-01-08
PRIOR APPLICATION NUMBER: US 60/347,349
PRIOR FILING DATE: 2002-01-10
PRIOR APPLICATION NUMBER: US 60/355,250
PRIOR FILING DATE: 2002-02-08
PRIOR APPLICATION NUMBER: US 60/356,714
PRIOR FILING DATE: 2002-02-13
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1386
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 305
LENGTH: 1552
TYPE: DNA
ORGANISM: Homo sapiens
US-10-295-027-305
Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 ACAATGACCCGATGATGCTCCCTGTGCCCCAGCCCTGAGCTCCTCTGTTGATCCCGCC 60
31 ACAATGACCCGATGATGCTCCCTGTGCCCCAGCCCTGAGCTCCTCTGTTGATCCCGCC 90
61 CTGCTCCAGGCTTCACTGTGCAATCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
91 CTGCTCCAGGCTTCACTGTGCAATCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
121 CCCAGAGGTTGGCCCGGATGAGAGGATTTCCCTTGGAGAGGCTCTTCTGGGGA 180
151 CCCAGAGGTTGGCCCGGATGAGAGGATTTCCCTTGGAGAGGCTCTTCTGGGGA 210
181 GATGACCACTGAGGCGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
211 GATGACCACTGAGGCGAGAGATCTGCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
241 CCACCCGAGAGAGATCTTACTGAGAGAGATTTACTGAGAGAGAGATCTTACT 300
271 CCACCCGAGAGAGATCTTACTGAGAGAGATTTACTGAGAGAGAGATCTTACT 330
301 GAAATTAAGCTTAATGAAGAAAGAGGCTCCCTGAAGTTAGAGATCTTACTGTT 360

Db 331 GAAGTTAAGCCTAATCAGAGAAGAGGCTCCCTGAAGTTAGAGATCTACTACTT 390
Qy 361 GAGGCTCTGAGAGATCTCAGAAACCCAGATATATGCCAGAGGACAAAGAAAGGAGAT 420
Db 391 GAGGCTCTGAGAGATCTCAGAAACCCAGATATATGCCAGAGGACAAAGAAAGGAGAT 450
Qy 421 GACAGAGATCTATGAGGCTATGAGAGGAGACCCGCGCTGAGCCCGGAGTCTCCAGGCTGC 480
Db 451 GACAGAGATCTATGAGGCTATGAGAGGAGACCCGCGCTGAGCCCGGAGTCTCCAGGCTGC 510
Qy 481 GCGGCGCGCTTCCAGATCCCGGCTGAGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGC 540
Db 511 GCGGCGCGCTTCCAGATCCCGGCTGAGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGC 570
Qy 541 CTGCGCGCTTCCAGATCCCGGCTTCCAGATCCCGGCTTCCAGATCCCGGCTTCCAGATCC 600
Db 571 CTGCGCGCTTCCAGATCCCGGCTTCCAGATCCCGGCTTCCAGATCCCGGCTTCCAGATCC 630
Qy 601 AACCAATGACCAAGTGTGCACTGACCTGCTCTCTGAGGCTAGAGATGCTCTGAGGCTCC 660
Db 631 AACCAATGACCAAGTGTGCACTGACCTGCTCTCTGAGGCTAGAGATGCTCTGAGGCTCC 690
Qy 661 GGGCGGGAATCCGGGCTCTGACGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGAG 720
Db 691 GGGCGGGAATCCGGGCTCTGACGCTGCACTGCACTGAGGAGGCTGCAAGTCTGCGGAG 750
Qy 721 TCGGAGACACTGTGAGAGGCAACGCTTCCCTGCGGAGATCCAGTGTGCTACCTGACG 780
Db 751 TCGGAGACACTGTGAGAGGCAACGCTTCCCTGCGGAGATCCAGTGTGCTACCTGACG 810
Qy 781 ACCGCTTGTGCAAGATGTCAGAGGCTTGGGCGCGCGGAGGCTGAGCCGCTGTTGGCC 840
Db 811 ACCGCTTGTGCAAGATGTCAGAGGCTTGGGCGCGCGGAGGCTGAGCCGCTGTTGGCC 870
Qy 841 GCGCTTCTGAGAGAGGCGCGGAGAAACAGTCTTATGAGAGTGTGCTGCTGCTG 900
Db 871 GCGCTTCTGAGAGAGGCGCGGAGAAACAGTCTTATGAGAGTGTGCTGCTGCTG 930
Qy 901 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGAGCAATCTGAGACTC 960
Db 931 GAAAGAAATGCTGAGAGAGGCTCAGAGACTCAGGCTCCAGAGCTGAGCAATCTGAGACTC 990
Qy 961 CTGCGCTCTGACTTCAAGCGCTACTTCAATATGAGAGGCTCTCTGACTACACGCGCTGT 1020
Db 991 CTGCGCTCTGACTTCAAGCGCTACTTCAATATGAGAGGCTCTCTGACTACACGCGCTGT 1050
Qy 1021 GCGCAGGAGTGTCACTGAGCTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
Db 1051 GCGCAGGAGTGTCACTGAGCTGTGTTAAACAGACAGTATGCTGAGTCTAAGCAGCTC 1110
Qy 1081 CACACCTCTCTGACACCTCTGTGAGGAGCTGTGAGTCTCTGAGTACAGTGTGCTCCGA 1140
Db 1111 CACACCTCTCTGACACCTCTGTGAGGAGCTGTGAGTCTCTGAGTACAGTGTGCTCCGA 1170
Qy 1141 GCGAGCAGACCTTGTGAATGAGGAGGCTCTCTGAGGAGGCTCTGAGTGTGAGGAGCAGC 1200
Db 1171 GCGAGCAGACCTTGTGAATGAGGAGGCTCTCTGAGGAGGCTCTGAGTGTGAGGAGCAGC 1230
Qy 1201 AGTCTCTGAGGCTGTGAGGCAAGTCAAGCTGAATCTCTGCTGAGTGTGAGTCAATCTTA 1260
Db 1231 AGTCTCTGAGGCTGTGAGGCAAGTCAAGCTGAATCTCTGCTGAGTGTGAGTCAATCTTA 1290
Qy 1261 GCGCTGCTTGTGAGGCTCTCTGAGTGTGAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGT 1320
Db 1291 GCGCTGCTTGTGAGGCTCTCTGAGTGTGAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGT 1350
Qy 1321 AGGCAAGCAGAGAGGAGCAACAAAGGAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1380
Db 1351 AGGCAAGCAGAGAGGAGCAACAAAGGAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1410
Qy 1381 ACTGAGCTTGAAGCTGTGATCTTGAAGATGTGAGAGCCAGCCAGAGGCACTTGAAGG 1440
Db 1411 ACTGAGCTTGAAGCTGTGATCTTGAAGATGTGAGAGCCAGCCAGAGGCACTTGAAGG 1470

Qy 1441 GGAGCGGTAACTGTCTCTGCTGCTCATTATGCACTTCTTTTAACTGCCAAGAAAT 1500
Db 1471 GAGCGCGGTAACTGTCTCTGCTGCTCATTATGCACTTCTTTTAACTGCCAAGAAAT 1530
Qy 1501 TTTTAAATTAATTAATTAAT 1522
Db 1531 TTTTAAATTAATTAATTAAT 1552

RESULT 15
US-10-295-027-1022
Sequence 1022, Application US/10295027
Publication No. US2003023250A1
GENERAL INFORMATION:
APPLICANT: Afari, Daniel
APPLICANT: Aziz, Natasha
APPLICANT: Ginsberg, Wendy M.
APPLICANT: Gish, Kurt C.
APPLICANT: Glynn, Richard
APPLICANT: Hevizi, Peter A.
APPLICANT: Mack, David H.
APPLICANT: Murray, Richard
APPLICANT: Watson, Susan R.
APPLICANT: Eos Biotechnology, Inc.
TITLE OF INVENTION: Methods of diagnosis of Cancer, Compositions and
TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
FILE REFERENCE: 018501-012500US
CURRENT APPLICATION NUMBER: US/10/295,027
PRIORITY FILING DATE: 2002-11-13
PRIORITY APPLICATION NUMBER: US 09/663,733
PRIORITY FILING DATE: 2000-09-15
PRIORITY APPLICATION NUMBER: US 60/350,666
PRIORITY FILING DATE: 2001-11-13
PRIORITY APPLICATION NUMBER: US 60/335,394
PRIORITY FILING DATE: 2001-11-15
PRIORITY APPLICATION NUMBER: US 60/332,464
PRIORITY FILING DATE: 2001-11-21
PRIORITY APPLICATION NUMBER: US 60/334,393
PRIORITY FILING DATE: 2001-11-29
PRIORITY APPLICATION NUMBER: US 60/340,376
PRIORITY FILING DATE: 2001-12-14
PRIORITY APPLICATION NUMBER: US 60/347,211
PRIORITY FILING DATE: 2002-01-08
PRIORITY APPLICATION NUMBER: US 60/347,349
PRIORITY FILING DATE: 2002-01-10
PRIORITY APPLICATION NUMBER: US 60/355,250
PRIORITY FILING DATE: 2002-02-08
PRIORITY APPLICATION NUMBER: US 60/356,714
PRIORITY FILING DATE: 2002-02-13
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1386
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1022
LENGTH: 1552
TYPE: DNA
ORGANISM: Homo sapiens
US-10-295-027-1022

Query Match 100.0%; Score 1522; DB 15; Length 1552;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAGTTCAGCCGATGAGTCTCCCTGTGAGCCGAGCCCTGAGCTCTCTGTGATCCGAGCC 60
Db 31 AAGTTCAGCCGATGAGTCTCCCTGTGAGCCGAGCCCTGAGCTCTCTGTGATCCGAGCC 90
Qy 61 CCGTTCAGAGGCTCACTGTGCACTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 120
Db 91 CCGTTCAGAGGCTCACTGTGCACTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 150
Qy 121 CCCAGAGGTTCCCGGATGCAAGAGATTCCTGAGGAGAGGCTCTTCTGAGGAG 180

Db 151 CCCAGAGGTTGCCCGGATGACAGAGATTCGCCCTTGGAGAGAGCTCTTCTGGGGAA 210
Qy 181 GATTGACCCACTGGGCGAGAGATCTGCCAGTGAAGAGATTACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGGGCGAGAGATCTGCCAGTGAAGAGATTACCCAGAGAGAGAT 270
Qy 241 CCACCCGAGAGAGAGATCTACCTGGAGAGAGATCTACCTGGAGAGAGATCTACCT 300
Db 271 CCACCCGAGAGAGAGATCTACCTGGAGAGAGATCTACCTGGAGAGAGATCTACCT 330
Qy 301 GAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAGTTAGAGATCTACCTACTGTT 360
Db 331 GAAGTTAAGCTTAATCAGAGAGAGAGCTCCCTGAGTTAGAGATCTACCTACTGTT 390
Qy 361 GAGGCTCTGAGAGATCTCAAGAAACCCAGATTAATGCCACAGGAGCAAAAGAGGAT 420
Db 391 GAGGCTCTGAGAGATCTCAAGAAACCCAGATTAATGCCACAGGAGCAAAAGAGGAT 450
Qy 421 GACAGAGATCAATGGGCTATGAGAGGCGA CCGGCTGGCCCGGGTGCCTCCAGCTGAC 480
Db 451 GACAGAGATCAATGGGCTATGAGAGGCGA CCGGCTGGCCCGGGTGCCTCCAGCTGAC 510
Qy 481 GCGGGCCGCTTCAAGTCCCGGTGATATCCGCCCACTGCGCTTCTGCGCGGC 540
Db 511 GCGGGCCGCTTCAAGTCCCGGTGATATCCGCCCACTGCGCTTCTGCGCGGC 570
Qy 541 CTGCGCCCTTGGAACTCTGGGGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 600
Db 571 CTGCGCCCTTGGAACTCTGGGGCTTCCAGCTCCGCGCTCCAGAACTGCGCTGCGC 630
Qy 601 AACAAATGGCCACAGTGTGCAACTGACCTGCTGCTGAGAGTGGCTGAGGTTGCC 660
Db 631 AACAAATGGCCACAGTGTGCAACTGACCTGCTGCTGAGAGTGGCTGAGGTTGCC 690
Qy 661 GGGCGGAGTACCGGCTCTGCACTGCACTGCACTGGGAGGCTGCAAGTGTGCGGAC 720
Db 691 GGGCGGAGTACCGGCTCTGCACTGCACTGCACTGGGAGGCTGCAAGTGTGCGGAC 750
Qy 721 TGGAGACACTGTGGAAGGCCACCGTTCCTGCGCGAGATCAAGTGTCACTGACG 780
Db 751 TGGAGACACTGTGGAAGGCCACCGTTCCTGCGCGAGATCAAGTGTCACTGACG 810
Qy 781 ACCGCTTTGCGAGATTGACAGAGGCTTGGGGCGCCCGGAGGCTGCGCTGTTGGCC 840
Db 811 ACCGCTTTGCGAGATTGACAGAGGCTTGGGGCGCCCGGAGGCTGCGCTGTTGGCC 870
Qy 841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGACAGTGTCTGCGTTG 900
Db 871 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGCCTATGACAGTGTCTGCGTTG 930
Qy 901 GAAAGAAATGGCTGAGAGAGGCTCAGAGATCAAGTCCCGAGACTGACATATCTGACATC 960
Db 931 GAAAGAAATGGCTGAGAGAGGCTCAGAGATCAAGTCCCGAGACTGACATATCTGACATC 990
Qy 961 CTGCGCTTGACTTGAAGCGCTACTTCAATATGAGGGGTCTGTGACTACACCGCCTGT 1020
Db 991 CTGCGCTTGACTTGAAGCGCTACTTCAATATGAGGGGTCTGTGACTACACCGCCTGT 1050
Qy 1021 GCCCAGGGTGTATCTGACTGTGTTTAACAGACAGTATGCTGAGTCTAAGCAGCTC 1080
Db 1051 GCCCAGGGTGTATCTGACTGTGTTTAACAGACAGTATGCTGAGTCTAAGCAGCTC 1110
Qy 1081 CACACCTCTTGAACACCTCTGGGGGACTGTGTGACTCTGCGCTACAGTGAACCTTCGA 1140
Db 1111 CACACCTCTTGAACACCTCTGGGGGACTGTGTGACTCTGCGCTACAGTGAACCTTCGA 1170
Qy 1141 GCGAGCAGACTTTGAAATGGGCGAGTATGAGGCTCTTCCCTGCTGAGTGAACAGC 1200
Db 1171 GCGAGCAGACTTTGAAATGGGCGAGTATGAGGCTCTTCCCTGCTGAGTGAACAGC 1230
Qy 1201 AGTCTCTGGGCTGTGAGCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGAGATCTCTA 1260
Db 1231 AGTCTCTGGGCTGTGAGCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGAGATCTCTA 1290

Qy 1261 GCCCTGTTTGTGGCTCTTTTGTCTGTCAACAGGTCGGTTCCTTGTGTGAGATGAGA 1320
Db 1291 GCCCTGTTTGTGGCTCTTTTGTCTGTCAACAGGTCGGTTCCTTGTGTGAGATGAGA 1350
Qy 1321 AGGACGACAGAGAGGGAACCAAGAGGGGTGTAGCTACCGCCAGCAGAGAGTACCGAG 1380
Db 1351 AGGACGACAGAGAGGGAACCAAGAGGGGTGTAGCTACCGCCAGCAGAGAGTACCGAG 1410
Qy 1381 ACTGAGCCTTGAAGGCTGATCTTGAAGATGTGAAGCCAGCCAGAGGCACTGAGGG 1440
Db 1411 ACTGAGCCTTGAAGGCTGATCTTGAAGATGTGAAGCCAGCCAGAGGCACTGAGGG 1470
Qy 1441 GAGAGCGGTAACTGTCTGTCTGTCTGTCACTTATGCCACTTCTTTTAACTGCCAGAAATT 1500
Db 1471 GAGAGCGGTAACTGTCTGTCTGTCTGTCACTTATGCCACTTCTTTTAACTGCCAGAAATT 1530
Qy 1501 TTTTAAATTAATTTTATTAAT 1522
Db 1531 TTTTAAATTAATTTTATTAAT 1552

Search completed: February 6, 2005, 07:34:55
Job time : 866 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 5, 2005, 23:51:49 ; Search time 4444 Seconds
(without alignments)
12480.034 Million cell updates/sec

Title: US-09-967-237A-1

Perfect score: 1522

Sequence: 1 acagtcagccgcatgctcc.....ttaaataaataattataat 1522

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 1821985908 residues

Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : EST:
1: gb_ests1:*
2: gb_ests2:*
3: gb_hncc:*
4: gb_ests3:*
5: gb_ests4:*
6: gb_ests5:*
7: gb_ests6:*
8: gb_gsa1:*
9: gb_gsa2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1510.4	99.2	1541	3	CR597234 full-length
2	1502.4	98.7	1523	3	CR620502 full-length
3	1467.4	96.4	1469	3	CR616345 full-length
4	1423.4	93.5	1492	3	CR590646 full-length
5	1024.8	67.3	1084	1	AL542336 AL542336
6	920.8	60.5	1070	1	AL554705 AL554705
7	903.4	59.4	1009	1	AL558378 AL558378
8	891.4	58.6	916	5	BX423970 BX423970
9	861.6	56.6	1071	1	AL554665 AL554665
10	832	54.7	1017	5	BX401186 BX401186
11	813.6	53.5	961	5	BX423969 BX423969
12	797	52.4	971	7	CO579387 CO579387
13	794.4	52.2	994	1	AL577748 AL577748
14	789.4	51.9	1017	1	AL580216 AL580216
15	772.6	50.8	927	1	AL555184 AL555184
16	731.4	48.1	874	4	BC386425 BC386425
17	669.8	44.0	689	6	CA425935 CA425935
18	665.4	43.7	682	1	AI831707 AI831707
19	665.4	43.7	836	5	BX383092 BX383092
20	660.4	43.4	691	5	BX620600 BX620600
21	650.6	42.7	795	2	AW083555 AW083555
22	647	42.5	669	1	AI925646 AI925646
23	644	42.3	668	4	BG824243 BG824243
24	629.2	41.3	733	4	BG819731 BG819731

c	25	627.8	41.2	658	1	AI769526	AI769526 wj24a11.x
c	26	625.6	41.1	818	2	BE548062	BE548062 601072095
c	27	620.8	40.8	806	2	BF344769	BF344769 602014025
c	28	608.4	40.0	659	6	CA416326	CA416326 UI-H-FR0-
c	29	586.4	38.5	589	4	BM790508	BM790508 K-EST0070
c	30	582.2	38.3	618	2	AW615291	AW615291 hh40f01.x
c	31	580	38.1	740	1	CK971835	CK971835 4088027.B
c	32	575.6	37.8	814	1	AI241681	AI241681 gw70e12.x
c	33	572	37.6	627	4	BM552941	BM552941 AGENCOURT
c	34	569.8	37.4	746	4	BI223232	BI223232 602941237
c	35	568.6	37.4	830	7	CK849799	CK849799 972939.BA
c	36	564	37.1	577	1	AI032380	AI032380 ov37e07.x
c	37	541.6	35.6	736	2	BE543633	BE543633 601071359
c	38	533.6	35.1	722	7	CK978804	CK978804 4110117.B
c	39	522.6	34.3	581	1	AI023541	AI023541 cv79e12.8
c	40	520.6	34.2	782	7	CK869500	CK869500 4084712.B
c	41	514.6	33.8	543	1	AA879425	AA879425 c91402.8
c	42	512	33.6	579	1	AI400286	AI400286 t943c07.x
c	43	501.2	32.9	525	1	AI979142	AI979142 wr71a08.x
c	44	495.8	32.6	551	6	CA406362	CA406362 1002511.H
c	45	489	32.1	489	1	AI791726	AI791726 oq6b07.y

ALIGNMENTS

RESULT 1	CR597234	1541 bp	mRNA	linear	HTC 21-JUL-2004
LOCUS	CR597234	full-length cDNA clone CSOD1085YF18 of Placenta Cot 25-normalized			
DEFINITION	CR597234	of Homo sapiens (human).			
ACCESSION	CR597234.1	GI:50478041			
VERSION	CR597234.1	GI:50478041			
KEYWORDS	HTC; cDNA				
SOURCE	Homo sapiens				
ORGANISM	Homo sapiens				
REFERENCE	Li, W.B., Gruber, C., Jessee, J., and Polayes, D.				
AUTHORS	Li, W.B., Gruber, C., Jessee, J., and Polayes, D.				
TITLE	Full-length cDNA libraries and normalization				
JOURNAL	Unpublished				
REMARK	Contract : Feng Liang Email : fliang@lifeitech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue 2 (bases 1 to 1541)				
REFERENCE	Genoscope.				
AUTHORS	Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :				
TITLE	BP 191 91006 EVRY cedex - FRANCE (E-mail : sequef@genoscope.cns.fr				
JOURNAL	- Web : www.genoscope.cns.fr)				
COMMENT	1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen.				
FEATURES	Location/Qualifiers				
source	1..1541				
	/organism="Homo sapiens"				
	/mol_type="mRNA"				
	/db_xref="taxon:9606"				
	/clone="CSOD1085YF18"				
	/cbase_type="Placenta Cot 25-normalized"				
	/plasmid="pCMVSPORT_6"				
ORIGIN	99.2% Score 1510.4; DB 3; Length 1541;				
Query Match	Pred. 99.2% ; Mismatches 1; Indels 0; Gaps 0;				
Best Local Similarity	Matches 1511; Conservative				
Qy	1 ACAGTCAGCCGATGCTCCCTGTGCCCCAGCCCTGAGTCCCTGTGATCCGGCC 60				
Db	30 ACAGTCAGCCGATGCTCCCTGTGCCCCAGCCCTGAGTCCCTGTGATCCGGCC 89				

OY		61	CCTGCTCCAGGGCCTCACTGTGCAACTCGTCGTCACTGCTTCTGATGCTGGCAT	120
Db		90	CCTGCTCCAGGGCTCACTGTGCAACTCGTCGTCACTGCTTCTGATGCTGGCAT	149
OY		121	CCCCAAGAGTTGCCCCGATGCAAGAGATTCCCCTTGAGGAAGAGCTCTTCTGAGGA	180
Db		150	CCCCAAGAGTTGCCCCGATGCAAGAGATTCCCCTTGAGGAAGAGCTCTTCTGAGGA	209
OY		181	GATGACCCCATGSGGGGAGGAGATCTGCCAGTGAAAGAAGATTCAACCAGAGAGAGAT	240
Db		210	GATGACCCCATGSGGGGAGGAGATCTGCCAGTGAAAGAAGATTCAACCAGAGAGAGAT	269
OY		241	CCACCOCGAGAGAGAGATCTACCTGAGAGAGAGATCTACTCTGAGAGAGAGATCTACCT	300
Db		270	CCACCOCGAGAGAGAGATCTACCTGAGAGAGAGATCTACTCTGAGAGAGAGATCTACCT	329
OY		301	GAAGTTAAGCTTAATCAGAAAGAAGGGCTCCCTGAAGTTAGAAGATTACTACTGT	360
Db		330	GAAGTTAAGCTTAATCAGAAAGAAGGGCTCCCTGAAGTTAGAAGATTACTACTGT	389
OY		361	GAGGCTCCTGAGATCCTCAAGAACCCCAAGATAATGCSACAAGGGAACAAGAAGGAGAT	420
Db		390	GAGGCTCCTGAGATCCTCAAGAACCCCAAGATAATGCSACAAGGGAACAAGAAGGAGAT	449
OY		421	GAACAGATCATTTGGCGCTATGAGAGCGACCCGCCCTGAGCCCGGGTGTCCCAAGCTGC	480
Db		450	GAACAGATCATTTGGCGCTATGAGAGCGACCCGCCCTGAGCCCGGGTGTCCCAAGCTGC	509
OY		481	GGGGGCGGTTCAAGTCCCGGGTGAATATCCGCCCCAGCTGGCGGCTTCTGGCCCGGC	540
Db		510	GGGGGCGGTTCAAGTCCCGGGTGAATATCCGCCCCAGCTGGCGGCTTCTGGCCCGGC	569
OY		541	CTGCAGCCCTTGAACTCTCTGGGCTTCCAAGCTCCGCGGCTCCAGAACTGCGGCTGCGC	600
Db		570	CTGCAGCCCTTGAACTCTCTGGGCTTCCAAGCTCCGCGGCTCCAGAACTGCGGCTGCGC	629
OY		601	AACATATGGCCACAGTGTGCAATGACCTGCTCTGAGGCTTAGAATGGCTCTGGGATGCC	660
Db		630	AACATATGGCCACAGTGTGCAATGACCTGCTCTGAGGCTTAGAATGGCTCTGGGATGCC	689
OY		661	GGGCGGAGTAGTCCGGGCTCTGAGCTGCACTGCACTGGGGGGGCTGCAAGTGTCCGGGC	720
Db		690	GGGCGGAGTAGTCCGGGCTCTGAGCTGCACTGCACTGGGGGGGCTGCAAGTGTCCGGGC	749
OY		721	TGGAGCACACTGTGGAAGGCCACCGTTCCTGCGCGAGATCACGTGGTTCACTCAAC	780
Db		750	TGGAGCACACTGTGGAAGGCCACCGTTCCTGCGCGAGATCACGTGGTTCACTCAAC	809
OY		781	ACCGGCTTGGCCAGAGTTGAAGAGGCTTTGGGGGCGCCGGAGGCGCTGGCGGTGTGGCC	840
Db		810	ACCGGCTTGGCCAGAGTTGAAGAGGCTTTGGGGGCGCCGGAGGCGCTGGCGGTGTGGCC	869
OY		841	GCTTTTCTGAGAGAGGGGCCCGAAGAAAACAATGCTCTATGACAGATTGTGTCGCTTG	900
Db		870	GCTTTTCTGAGAGAGGGGCCCGAAGAAAACAATGCTCTATGACAGATTGTGTCGCTTG	929
OY		901	GAAGAAATCGCTGAGAGAGAGGCTCAAGACTCAAGATGCCAGATCTGACATATCTGACTC	960
Db		930	GAAGAAATCGCTGAGAGAGAGGCTCAAGACTCAAGATGCCAGATCTGACATATCTGACTC	989
OY		961	CTGCCTCTGACTTCAAGCCGCTACTTCAAATGAGAGGGTCTCTGACTACACCGGCTGT	1022
Db		990	CTGCCTCTGACTTCAAGCCGCTACTTCAAATGAGAGGGTCTCTGACTACACCGGCTGT	1044
OY		1021	GCCCAAGGTTGATCTGGACTGTGTTTTAACAGACAGATGATGCTGATGACAGACTC	1080
Db		1050	GCCCAAGGTTGATCTGGACTGTGTTTTAACAGACAGATGATGCTGATGACAGACTC	1109
OY		1081	CACACCCCTCTGGAACACCTGTGGGGAACCTGGTGACTCCGGCTTCAACCTGAACCTTCGA	1144
Db		1110	CACACCCCTCTGGAACACCTGTGGGGAACCTGGTGACTCCGGCTTCAACCTGAACCTTCGA	1166

QY	1141	GCAGACGACCTTTGAATGGGCGAGTATTTAGAGCTCTTCCCTGCTGAGAGTGA CAGC	1206
Db	1170	GCAGACGACCTTTGAATGGGCGAGTATTTAGAGCTCTTCCCTGCTGAGAGTGA CAGC	1229
QY	1201	AGTCCTCGGGCTGCTGAGCCAGTCCAAGTAATTCGTCCGTGCTGATGA CATCTTA	1266
Db	1230	AGTCCTCGGGCTGCTGAGCCAGTCCAAGTAATTCGTCCGTGCTGATGA CATCTTA	1289
QY	1261	GCCTCGTTTTTGGCCCTCTTTTGTGCTGACCAAGCGTGGGTTCCTTTGSCAATGAGA	1320
Db	1290	GCCTCGTTTTTGGCCCTCTTTTGTGCTGACCAAGCGTGGGTTCCTTTGSCAATGAGA	1349
QY	1321	AGGCAGCACAGAAAGGGAACCAAGGGGGGTGTGACTACCGCCAGCAGAGGTAGCCGAG	1380
Db	1350	AGGCAGCACAGAAAGGGAACCAAGGGGGGTGTGACTACCGCCAGCAGAGGTAGCCGAG	1409
QY	1381	ACTGGAGCCTTAGAGGCTTGATCTTGGAAATGTTGAGAAGCCAGCCAGAGGATCTGAGGG	1440
Db	1410	ACTGGAGCCTTAGAGGCTTGATCTTGGAAATGTTGAGAAGCCAGCCAGAGGATCTGAGGG	1469
QY	1441	GGAGCCGGTAACTGTCTGTGCTGCTCATTAATGCCACTTCTTTTAACTGCGCAAGAATT	1500
Db	1470	GGAGCCGGTAACTGTCTGTGCTGCTCATTAATGCCACTTCTTTTAACTGCGCAAGAATT	1529
QY	1501	TTTTAAATATAA	1512
Db	1530	TTTTAAATATAA	1541

RESULT 2	
C620502	
LOCUS	CRE20502
DEFINITION	full-length cDNA clone CSODK007YK10 of Hela cells Cot 25-normalized of Homo sapiens (human).
ACCESSION	CRE20502
VERSION	CRE20502.1 GI:50501309
KEYWORDS	HTC; CNSLT cDNA.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. Li W.B., Gruber C., Jesse J., and Polayres D. Full-length cDNA libraries and normalization Unpublished Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Paraday Avenue Genoscope 2 (bases 1 to 1523) Direct Submission Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr Web : www.genoscope.cns.fr) The full length cDNA was primed with a NotI-oilgo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of invitrogen.
COMMENT	
FEATURES	Location/Qualifiers 1..1523
SOURCE	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="CSODK007YK10" /tissue_type="Hela cells Cot 25-normalized" /plasmid="pCMVSPORT_6"
ORIGIN	

Query Match	98.7%	Score 1502.4;	DB 3;	Length 1523;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1503; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

1 AAGTACGCGGATGCTCCCTGTGCCCCAGCCCTGAGCTCCCTGTGTATCCCGGCC 60
20 AAGGTACGCGGATGCTCCCTGTGCCCCAGCCCTGAGCTCCCTGTGTATCCCGGCC 79
61 CTTGCTCAGGCTCACTGTGCACTGTGCTGTCACTGTGCTTCTGATGCTGTCAAT 120
80 CTTGCTCAGGCTCACTGTGCACTGTGCTGTCACTGTGCTTCTGATGCTGTCAAT 139
121 CCCGAGGTTGCCCCGAGATGAGAGGATTTCCCTTGGGAGGAGGCTCTTCTGGGAAA 180
140 CCCGAGGTTGCCCCGAGATGAGAGGATTTCCCTTGGGAGGAGGCTCTTCTGGGAAA 199
181 GATGACCACTGGGCGAGAGGATCTGCGCAGTGAAGAGATTCACTCAGAGAGAGAT 240
200 GATGACCACTGGGCGAGAGGATCTGCGCAGTGAAGAGATTCACTCAGAGAGAGAT 259
241 CCAACCCGAGAGAGGATCTACTGTGAGAGAGAGATCTACTGTGAGAGAGATCTACT 300
260 CCAACCCGAGAGAGGATCTACTGTGAGAGAGATCTACTGTGAGAGAGATCTACT 319
301 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAAGGATCTACTACTGTT 360
320 GAAGTTAAGCTTAATCAGAGAGAGGCTCCCTGAAGTTAAGGATCTACTACTGTT 379
361 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATTAATGCCACAGGACAAAGAGGAGAT 420
380 GAGGCTCTGAGAGATCTCAAGAACCCAGAAATTAATGCCACAGGACAAAGAGGAGAT 439
421 GACAGAGTCAATTTGGGCTATGAGAGGCGACCCGCTTGGCCCGGGGTGTCCTCAAGCTTC 480
440 GACAGAGTCAATTTGGGCTATGAGAGGCGACCCGCTTGGCCCGGGGTGTCCTCAAGCTTC 499
481 GGGGGCGGCTTCAAGTCCCGGTGATATCCCGCCCACTGCGGCTTCTGCGCGGCC 540
500 GGGGGCGGCTTCAAGTCCCGGTGATATCCCGCCCACTGCGGCTTCTGCGCGGCC 559
541 CTGCGCCCTGGAATCTCTGGGCTTCAAGCTCCGCGCTCCAGAACTGCGCGGCC 600
560 CTGCGCCCTGGAATCTCTGGGCTTCAAGCTCCGCGCTCCAGAACTGCGCGGCC 619
601 AACATGAGCACAAGTGTGCACTGACCTGCTGCTGAGAGATGAGTCTTGGGTCCC 660
620 AACATGAGCACAAGTGTGCACTGACCTGCTGCTGAGAGATGAGTCTTGGGTCCC 679
661 GGGCGGAGATACCGGCTCTGCAAGCTGTGCACTGGGGGGCTGCAAGTGTCTCGGGCC 720
680 GGGCGGAGATACCGGCTCTGCAAGCTGTGCACTGGGGGGCTGCAAGTGTCTCGGGCC 739
721 TCGGAGCACAAGTGTGAGAGGCGCTTCCCTGCGAGATCCAAGTGTTCACCTCAGC 780
740 TCGGAGCACAAGTGTGAGAGGCGCTTCCCTGCGAGATCCAAGTGTTCACCTCAGC 799
781 ACCGCTTTGCGAGATTGACAGAGGCTTGGGGCGCCGAGAGGCTGCGCGGTGGCC 840
800 ACCGCTTTGCGAGATTGACAGAGGCTTGGGGCGCCGAGAGGCTGCGCGGTGGCC 859
841 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGTCTATGAGAGATGCTGTCTGCTGG 900
860 GCTTTTCTGAGAGAGGCGCCGAGAGAAACAGTGTCTATGAGAGATGCTGTCTGCTGG 919
901 GAAGAAATGCTGAGAGAGGCTCAGAGATCAGGTCCAGGACTGAGACATATCTGACATC 960
920 GAAGAAATGCTGAGAGAGGCTCAGAGATCAGGTCCAGGACTGAGACATATCTGACATC 979
961 CTGCTCTGACTTCAAGCGCTTCAATATGAGGAGTCTTCTGACTACCGCGCTGT 1020
980 CTGCTCTGACTTCAAGCGCTTCAATATGAGGAGTCTTCTGACTACCGCGCTGT 1039
1021 GCCGAGGAGTCACTGTGATCTGTGTTAACAGACAGTGTATGCTGAGAGGCTC 1080
1040 GCCGAGGAGTCACTGTGATCTGTGTTAACAGACAGTGTATGCTGAGAGGCTC 1099
1081 CACACCTCTGACACCTGTGAGGAGCTGTGATCTCTGCTGACGCTGAATCTTCGA 1140

1100 CACACCTCTGACACCTGTGAGGAGCTGTGATCTCTGCTGACGCTGAATCTTCGA 1159
1141 GGGAGCGAGCTTTAAATGGGAGATGATGAGGCTCCCTTCCCTGCTGAGATGACAGC 1200
1160 GGGAGCGAGCTTTAAATGGGAGATGATGAGGCTCCCTTCCCTGCTGAGATGACAGC 1219
1201 AGTCTCGGAGCTGAGAGCAGTCAAGTATCTGCTGAGCTGAGTCAATCTTA 1260
1220 AGTCTCGGAGCTGAGAGCAGTCAAGTATCTGCTGAGCTGAGTCAATCTTA 1279
1261 GCTTGTGTTTGGCTCTCTTTTGTCTGACACAGCTGCGCTTCTTGTGAGATGAGA 1320
1280 GCTTGTGTTTGGCTCTCTTTTGTCTGACACAGCTGCGCTTCTTGTGAGATGAGA 1339
1321 AGGAGCACAAGAGGAGAACCAAGGGGTGTGACTACCGCCGAGCAGAGTACCGAG 1380
1340 AGGAGCACAAGAGGAGAACCAAGGGGTGTGACTACCGCCGAGCAGAGGATACCGAG 1399
1381 ACTGAGCTTGAAGCTGATCTTGAAGATGTGAGAGCCAGCCAGAGGATCTGAGGG 1440
1400 ACTGAGCTTGAAGCTGATCTTGAAGATGTGAGAGCCAGCCAGAGGATCTGAGGG 1459
1441 GGAGCGGTAACTGTCTGTCTGTCTATTAATGCACTTCTTTAACTGCCAAGAAAT 1500
1460 GGAGCGGTAACTGTCTGTCTGTCTATTAATGCACTTCTTTAACTGCCAAGAAAT 1519
1501 TTTT 1504
1520 TTTT 1523

RESULT 3

CR616345

LOCUS CR616345 1469 bp mRNA linear HTC 21-UTL-2004

DEFINITION

full-length cDNA clone CS0DA003YB12 of Neuroblastoma of Homo sapiens (human).

ACCESSION

CR616345

VERSION

CR616345.1

KEYWORDS

HTC; CNSLT_cDNA.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

1 (bases 1 to 1469)

AUTHORS

Li, W.-B., Gruber, C., Jesse, J., and Polayes, D.

TITLE

Full-length cDNA libraries and normalization

JOURNAL

Unpublished

REMARK

Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Paraday Avenue 2 (bases 1 to 1469)

REFERENCE

Genoscope.

Direct Submission

Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : segre@genoscope.cns.fr)

COMMENT

- Web : www.genoscope.cns.fr)

1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen

FEATURES

location/Qualifiers

1..1469

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="CS0DA003YB12"

/issue_type="Neuroblastoma"

/plasmid="pCMVSPORT_6"

Query Match

96.4%; Score 1467.4; DB 3; Length 1469;

Best Local Similarity 98.14; Pred. No. 0;
Matches 1461; Conservative 0; Mismatches 1; Indels 27; Gaps 1;

Oy	1	AACGTCACCCGATAGGCTCCCTGAGCCCAAGCCCTGAGCTCCCTGTGATATCCCGAC	60
Db	31	AACGTACACCGATAGGCTCCCTGAGCCCAAGCCCTGAGCTCCCTGTGATATCCCGAC	90
Oy	61	CTGCTCCAGGCTCTCACTGTGCATCTGTGCTGTCACTGTGCTTTCTGATGTCTGTCAAT	120
Db	91	CTGTGCTCAGGCTCTCACTGTGCATCTGTGCTGTCACTGTGCTTTCTGATGTCTGTCAAT	150
Oy	121	CCCCAGAGTTGCCCCGGAATGCAGAGGATTTCCCTTGGAGAGAGGCTCTTTTGGAGAA	180
Db	151	CCCCAGAGTTGCCCCGGAATGCAGAGGATTTCCCTTGGAGAGAGGCTCTTTTGGAGAA	210
Oy	181	GATGACCCACTGGGCGAGAGGATCTGCGCCAGTGAAGAGATTCACCCAGAGAGGAGAT	240
Db	211	GATGACCCACTGGGCGAGAGGATTTGCGCCAGTGAAGAGATTCACCCAGAGAGGAGAT	270
Oy	241	CCACCCGGAGAGAGGATCTACCTTGAGAGAGGATCTTACTTGAGAGAGGATCTTACTT	300
Db	271	CCACCCGGAGAGAGGATCTTACTTGAGAGAGGATCTTACTTGAGAGAGGATCTTACTT	330
Oy	301	GAAGTTAAGCCTTAAATCAAGAGAGAGGAGCTCCCTGAAGTTAAGAGATCTTACTTGT	360
Db	331	GAAGTTAAGCCTTAAATCAAGAGAGAGGAGCTCCCTGAAGTTAAGAGATCTTACTTGT	390
Oy	361	GAGGCTCTTGAGAGATCTCAAGAAACCCAGAAATAATGCCCCAGAGGACAAAGAGGGAT	420
Db	391	GAGGCTCTTGAGAGATCTTCAAGAAACCCAGAAATAATGCCCCAGAGGACAAAGAGGGAT	450
Oy	421	GACCAAGATCATTTGGCGCTATGAGAGCGAACCCGCCCTGGGCCCGGGTGTCCCAAGCTGC	480
Db	451	GACCAAGATCATTTGGCGCTATGAGAGCGAACCCGCCCTGGGGTGTCCCAAGCTGC	510
Oy	481	GCGGGCCGCTTCCAGTCCCCCGGTGGAATTCGGCCCCCAAGCTGCAGCTTTCTGCCCCGACC	540
Db	511	GCGGGCCGCTTCCAGTCCCCCGGTGGAATTCGGCCCCCAAGCTGCAGCTTTCTGCCCCGACC	570
Oy	541	CTGGGCCCCCTGGGAACTCTGGGGCTTCCAGGCTCCCGCGGCTCCCAAGACTGGGCGCTGGGC	600
Db	571	CTGGGCCCCCTGGGAACTCTGGGGCTTCCAGGCTCCCGCGGCTCCCAAGACTGGGCGCTGGGC	630
Oy	601	AACAATGSCCAcAGTGTGCAACTGACCTGTGCTCTCTGGGCTTAAGATGGCTCTGAGTCCC	660
Db	631	AACAATGSCCAcAGTGTGCAACTGACCTGTGCTCTCTGGGCTTAAGATGGCTCTGAGTCCC	690
Oy	661	GGGCGGAGATACCGGGCTCTGCACTGCACTTGCATCTGGGGGCTGCAAGTGTCTCGGGC	720
Db	691	GGGCGGAGATACCGGGCTCTGCACTGCACTTGCATCTGGGGGCTGCAAGTGTCTCGGGC	750
Oy	721	TCGGAGCAcATGTGAGAGGCAcCGTTCCTGTGCGAGATCAcGTGTGTCACTCAc	780
Db	751	TCGGAGCAcATGTGAGAGGCAcCGTTCCTGTGCGAGATCAcGTGTGTCACTCAc	810
Oy	781	ACCGGCTTTGcCAGAGTGAcGAGGcCTTGGGgCGcCCCGGAGGcCTTGGcGTGTGGcC	840
Db	811	ACCGGCTTTGcCAGAGTGAcGAGGcCTTGGGgCGcCCCGGAGGcCTTGGcGTGTGGcC	870
Oy	841	GcCTTTCTGAGAGAGGgCCCGGAAAGAAAcAGTGTCTATGAGcAGTTGTCTGTCTGGCTTG	900
Db	871	GcCTTTCTGAGAGAGGgCCCGGAAAGAAAcAGTGTCTATGAGcAGTTGTCTGTCTGGCTTG	930
Oy	901	GAAGAAATCGcTGAAGAGGcCTCAAGAcCTAGGTCcCAGAGcCTGGAATATCTGCACTC	960
Db	931	GAAGAAATCGcTGAAGAGGcCTCAAGAcCTAGGTCcCAGAGcCTGGAATATCTGCACTC	990
Oy	961	CTGcCCTCTGAcTTCAgCGCGcTACTTCCAAATATAGAGGgGTCTGAcCTTACAcCGcCCTGT	1020
Db	991	CTGcCCTCTGAcTTCAgCGCGcTACTTCCAAATATAGAGGgGTCTGAcCTTACAcCGcCCTGT	1050
Oy	1021	GCCcAGGgTGTCACTTGGAcCTGTGTTTAAcCAAGAcAGTATGTGAGTGTCTTAAGcAGCTC	1080

Db	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	ORGANISM	REFERENCE	ATTNORS	TITLE	JOURNAL	COMMENT
Dp	1051	GCCACGGGTGCATCTGTGACCTGTGTTTAAACGACAGATGATGCTGAGTGCCTAACAGAGCTC	AL542336	1084 bp	mRNA	linear	EST 24-MAR-2004				
Dp	1081	CACACCTCTCTGACACCTCTGTGGGGAACCTGTGATCTCTGGCTACAGCTGAACCTTCCGA	AL542336								
Dp	1111	CACACCTCTCTGACACCTCTGTGGGGAACCTGTGATCTCTGGCTACAGCTGAACCTTCCGA	AL542336								
Dp	1141	GCGACGACGCTTTGAAATGGGCGAGTATTTAGAGGCTCTTCCCTGCTGTGAGTGCACAGC	AL542336								
Dp	1171	GCGACGACGCTTTGAAATGGGCGAGTATTTAGAGGCTCTTCCCTGCTGTGAGTGCACAGC	AL542336								
Dp	1201	AGTCTCGAGGCTGTGAGCAGTCCAGCTGAAATTCCTGCTGCTGTGAGTGCATCTCTA	AL542336								
Dp	1231	AGTCTCGAGGCTGTGAGCAGTCCAGCTGAAATTCCTGCTGCTGTGAGTGCATCTCTA	AL542336								
Dp	1261	GCCCTGTGTTTGTGGCTCTCTTTTGTCTGTGACACAGCTGTGGCTCTTGTGACAGATGAGA	AL542336								
Dp	1264	GCCCTGTGTTTGTGGCTCTCTTTTGTGTGTGACACAGCTGTGGCTCTTGTGACAGATGAGA	AL542336								
Dp	1321	AGGACGACGCTTTGAAATGGGCGAGTATTTAGAGGCTCTTCCCTGCTGTGAGTGCACAGC	AL542336								
Dp	1324	AGGACGACGCTTTGAAATGGGCGAGTATTTAGAGGCTCTTCCCTGCTGTGAGTGCACAGC	AL542336								
Dp	1381	ACTGAGACCTTAGAGGCTGTGATCTTGTGGAATGTGAGAAGCAGGACGAGGATCTGAGGG	AL542336								
Dp	1384	ACTGAGACCTTAGAGGCTGTGATCTTGTGGAATGTGAGAAGCAGGACGAGGATCTGAGGG	AL542336								
Dp	1441	GAGCCCGGTAACTGTCTCTGCTCTGCTCATTAATGACCATCTCTTTAACT	AL542336								
Dp	1444	GAGCCCGGTAACTGTCTCTGCTCTGCTCATTAATGACCATCTCTTTAACT	AL542336								
RESULT 5											
LOCUS	AL542336	1084 bp	mRNA	linear	EST 24-MAR-2004						
DEFINITION	AL542336	Homo sapiens PLACENTA	Homo sapiens	CDNA	clone	CS0DE010YB19					
ACCESSION	AL542336	5-PRIME, mRNA	sequence.								
VERSION	AL542336	GI:45717912									
KEYWORDS	EST.										
ORGANISM	Homo sapiens	(human)									
REFERENCE	Bukayev, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;										
ATTNORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.										
TITLE	1 (bases 1 to 1084)										
JOURNAL	L.M.B., Gruber, C., Jesse, J. and Polayes, D.										
COMMENT	Full-length CDNA libraries and normalization										
	Unpublished (2001)										
	On Feb 15, 2001 this sequence version replaced gi:30547384.										
	Contact: Genoscope										
	Genoscope - Centre National de Sequencage										
	BP 191 91006 Evry cedex - France										
	Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr										
	1st strand cDNA was primed with a NotI-oligo(dT) primer. Five primers										
	end enriched, double-strand cDNA was digested with Not I and cloned										
	into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library										
	was not normalized. Library was constructed by Life Technologies, a										
	division of Invitrogen.										
	This sequence belongs to sequence cluster 8734.f										
	For more information about this cluster, see										
	http://www.genoscope.cns.fr/cdna?cs=CS0DE010CA10QP2&c=8734.f.										
	Location/Qualifiers										

ORIGIN

Query Match 67.3%; Score 1024.8; DB 1; Length 1084;
Best Local Similarity 98.4%; Pred. No. 4.6e-247;
Matches 1045; Conservative 9; Mismatches 6; Indels 2; Gaps 2;

```
QY 1 ACAAGTCAAGGCGGATGCTCCCTGAGCCCAAGCCCTGAGCTCCCTGAGTATCCCGGCG 60
DB 12 AAGATCAGCCGATGAG-TCCCTGAGCCCAAGCCCTGAGCTCCCTGAGTATCCCGGCG 70
QY 61 CCTGCTCCAGGCTCACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 120
DB 71 CCTGCTCCAGGCTCACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 130
QY 121 CCCCAAGAGTGGTCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTTTCTGGAGAA 180
DB 131 CCCCAAGAGTGGTCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTTTCTGGAGAA 190
QY 181 GATGACCCCACTGGGAGAGAGATGTCGCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
DB 191 GATGACCCCACTGGGAGAGAGATGTCGCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 250
QY 241 CCACCCGAGAGAGAGATTTACCTGAGAGAGAGATTTACCTGAGAGAGAGATTTACCT 300
DB 251 CCACCCGAGAGAGAGATTTACCTGAGAGAGAGATTTACCTGAGAGAGAGATTTACCT 310
QY 301 GAAATTAAAGCTTAAATCAGAGAGAGAGGCTCCCTGAAAGTGAAGATTTACCTTACTGT 360
DB 311 GAAATTAAAGCTTAAATCAGAGAGAGAGGCTCCCTGAAAGTGAAGATTTACCTTACTGT 370
QY 361 GAGGCTCCCTGAGATCTCTCAAGAACCCCAAGATTAATGCCACAGAGAGAGAGAGAT 420
DB 371 GAGGCTCCCTGAGATCTCTCAAGAACCCCAAGATTAATGCCACAGAGAGAGAGAT 430
QY 421 GACCAAGTCAATGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
DB 431 GACCAAGTCAATGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 490
QY 481 GGGGGCGCTTCAAGTCCCGGATGATTCGCGCCCAAGTTCGCGCTTCTGCGCGGCG 540
DB 491 GGGGGCGCTTCAAGTCCCGGATGATTCGCGCCCAAGTTCGCGCTTCTGCGCGGCG 550
QY 541 CTGGGCGGCGGAGAGTCCCTGAGGCTTCCAGGCTCCCGGCGCTCCAGAACTGCGCTGG 600
DB 551 CTGGGCGGCGGAGAGTCCCTGAGGCTTCCAGGCTCCCGGCGCTCCAGAACTGCGCTGG 610
QY 601 AACCAATGGCCACAGTGTGCACTGACCTGCTGCTGAGAGATGAGTGTGAGTCC 660
DB 611 AACCAATGGCCACAGTGTGCACTGACCTGCTGCTGAGAGATGAGTGTGAGTCC 670
QY 661 GGGGGGAGAGTACCGGAGCTTGAAGTGTGCACTGAGGAGGAGGCTGAGGAGTGTCCGG 720
DB 671 GGGGGGAGAGTACCGGAGCTTGAAGTGTGCACTGAGGAGGAGGCTGAGGAGTGTCCGG 730
QY 721 TGGAGGACACTGTGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780
DB 731 TGGAGGACACTGTGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 790
QY 781 ACCGCTTTGGCCAGAGTGAAGAGGCTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
DB 791 ACCGCTTTGGCCAGAGTGAAGAGGCTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 850
QY 841 GCGCTTTCTGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
DB 851 GCGCTTTCTGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 910
QY 901 GAAAGAAATGCTGAGAGAGGAGTCAAGAGTCAAGTCCAGAGGAGGAGGAGGAGGAGG 959
DB 911 GAAAGAAATGCTGAGAGAGGAGTCAAGAGTCAAGTCCAGAGGAGGAGGAGGAGGAGG 970
QY 960 CTTGCGCTTGAAGTCAAGGAGGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 1019
DB 971 CTTGCGCTTGAAGTCAAGGAGGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 1030
```

QY 1020 TGCCAGAGGCTCATCTGAGATGCTGTTTAAACCAAGAGATGAT 1061
DB 1031 TGCCAGAGGCTCATCTGAGATGCTGTTTAAACCAAGAGATGAT 1072

RESULT 6

AL554705

LOCUS

DEFINITION

AL554705 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens CDNA

clone CS001085YF18 5-PRIME, mRNA sequence.

AL554705

VERSION

KEYWORDS

EST.

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Genoscope - Centre National de Sequencage

BP 191 91006 Evry cedex - France

Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr

1st strand cDNA was primed with a NotI-oligo (dt) primer. Five prime

into the Not I and EcoR V sites of the PCWSPORT 6 vector. Library

was normalized. Library was constructed by life technologies, a

division of invitrogen. This sequence belongs to sequence cluster

5300.f

For more information about this cluster, see

http://www.genoscope.cns.fr/cdna?b=CS001085DC09P1&c=5300.f.

Location/Qualifiers

1..1070

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="CS001085YF18"

/tissue type="PLACENTA COT 25-NORMALIZED"

/clone lib="Homo sapiens PLACENTA COT 25-NORMALIZED"

/note="1st strand cDNA was primed with a NotI-oligo (dt)

primer. Five prime end enriched, double-strand cDNA was

digested with Not I and EcoR V

sites of the PCWSPORT 6 vector. Library was normalized."

ORIGIN

Query Match 60.5%; Score 920.8; DB 1; Length 1070;

Best Local Similarity 96.4%; Pred. No. 7.6e-22;

Matches 991; Conservative 13; Mismatches 15; Indels 9; Gaps 6;

```
QY 1 ACAATGAGCCGATGCTCCCTGAGCCCAAGCCCTGAGCTCCCTGAGTATCCCGGCG 60
DB 30 ACAATGAGCCGATGCTCCCTGAGCCCAAGCCCTGAGCTCCCTGAGTATCCCGGCG 89
QY 61 CCTGCTCCAGGCTCACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 120
DB 90 CCTGCTCCAGGCTCACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 149
QY 121 CCCCAAGAGTGGTCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTTTCTGGAGAA 180
DB 150 CCCCAAGAGTGGTCCCGGATGCAAGAGATTTCCCTTGGAGAGAGGCTTTCTGGAGAA 209
QY 181 GATGACCCCACTGGGAGAGAGATGTCGCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 240
DB 210 GATGACCCCACTGGGAGAGAGATGTCGCCAGTGAAGAGATTTCAACCCAGAGAGAGAT 269
QY 241 CCACCCGAGAGAGAGATTTACCTGAGAGAGAGATTTACCTGAGAGAGAGATTTACCT 300
DB 270 CCACCCGAGAGAGAGATTTACCTGAGAGAGAGATTTACCTGAGAGAGAGATTTACCT 329
```

301 GAAGTTAAAGCTAAATCAGAGAGAGAGGCTCCCTGAAAGTATGAGAGTACTACTGTT 360
330 GAAAGTTAAAGCTAAATCAGAGAGAGAGGCTCCCTGAAAGTATGAGAGTACTACTGTT 389
361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATATATGCCACAGGAGCAAGAGAGGAGT 420
390 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATATATGCCACAGGAGCAAGAGAGGAGT 449
421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCCCTGGCCCGGAGTGTCCCAAGCTTCC 480
450 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCCCTGGCCCGGAGTGTCCCAAGCTTCC 509
481 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGCGC 540
510 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGCGC 569
541 CTGCGCGCGCTTCAAGTCCCGGCTTCAAGTCCCGGCTTCTGCGCGGCGCTTCTGCGCGC 600
570 CTGCGCGCGCTTCAAGTCCCGGCTTCAAGTCCCGGCTTCTGCGCGGCGCTTCTGCGCGC 629
601 AACCAATGAGCAGATGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGTCTGAGTCCC 660
630 AACCAATGAGCAGATGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGTCTGAGTCCC 689
661 GGGCGGAGATACCGGCTCTGAGCTGATCTGACCT-636666CTGAGGCTGCTCCGCG 719
690 GGGCGGAGATACCGGCTCTGAGCTGATCTGACCTGAGGAGGAGGCTGAGGCTGCTCCGCG 749
720 CTGAGAGCAGATGTGAGAGGCGCAGCTTCTGCGAGATCTGAGGCTGAGGCTGAGGCTGAG 779
750 CTGAGAGCAGATGTGAGAGGCGCAGCTTCTGCGAGATCTGAGGCTGAGGCTGAGGCTGAG 809
780 CACCGCTTCTGAGAGGCTGAGAGGCTTGGGAGGCGCGGAGGCTGAGGCTGAGGCTGAGG 839
810 CACCGCTTCTGAGAGGCTGAGAGGCTTGGGAGGCGCGGAGGCTGAGGCTGAGGCTGAGG 869
840 CCGCTTCTGAGAGGAGGCGCGGAGAGAAACAGTGTCTATGAGCAGTGTCTGCTGCTT 899
870 CCGCTTCTGAGAGAGGAGGCGCGGAGAGAAACAGTGTCTATGAGCAGTGTCTGCTGCTT 928
900 GGAAGAAATCGCTGAGAGAGGCTGAGAGCTCAGAGTCCGAGAGCTGAGCAGATCTGAGCT 959
929 GGAAGAAATCGCTGAGAGAGGAGTCTGAGAGCTCAGAGTCCGAGAGCTGAGCAGATCTGAGCT 987
960 CCGCTTCTGAGAGGCTGAGAGGCTTCCAAATATGAGGAGTCTGAGCTGAGCAGGCGCTG 1019
988 C--TGTCTGAGCTTCAAG--CGCTAATTCAMWAGAGGCTCT--KATWMAACCGGCTK 1041
QY 1020 TGCCGAGG 1027
Db 1042 TGCCGAGG 1049

RESULT 7
AL558378 1009 bp mRNA linear EST 02-APR-2004
DEFINITION AL558378 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED
ACCESSION AL558378
VERSION AL558378.3 GI:46183776
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1009)
AUTHORS Li W.B., Gruber C., Jessee J. and Polymer D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On Feb 15, 2001 this sequence version replaced gi:31280177.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France

ORIGIN

Email: segref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five ploned
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna7a=CS0D005BF07QPlac=5300.f.
FEATURES
source
1..1009
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0D005YK14"
/cell_type="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/cell_line="JURKAT"
/clone_1ib="Homo sapiens T CELLS (JURKAT CELL LINE) COT
10-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

Query Match 59.4%; Score 903.4; DB 1; Length 1009;
Best Local Similarity 99.1%; Pred. No. 1.8e-216;
Matches 956; Conservative 4; Mismatches 0; Indels 5; Gaps 5;
QY 1 ACAGTCAGCCGAGTGGCTCCCTGTGCCCCAGCCCTGCTCTGTGATCCGCGC 60
Db 31 ACAGTCAGCCGAGTGGCTCCCTGTGCCCCAGCCCTGCTCTGTGATCCGCGC 90
QY 61 CCGTCTCAAGGCTCTCACTGTGCACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 91 CCGTCTCAAGGCTCTCACTGTGCACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 150
QY 121 CCCGAGGCTTCCCGGATGAGAGAGATTCCTCCCTGGGAGAGGCTCTTCTGGGAGAA 180
Db 151 CCCGAGGCTTCCCGGATGAGAGAGATTCCTCCCTGGGAGAGGCTCTTCTGGGAGAA 210
QY 181 GATGACCCACTGGGAGAGAGATCTGCCCAGTGAAGAGATTCACCCAGAGAGAGAT 240
Db 211 GATGACCCACTGGGAGAGAGATCTGCCCAGTGAAGAGATTCACCCAGAGAGAGAT 270
QY 241 CCAACCCGAGAGAGATTTACTTGAAGAGAGATCTACTGAGAGAGAGATTTACTT 300
Db 271 CCAACCCGAGAGAGATTTACTTGAAGAGAGATCTACTGAGAGAGAGATTTACTT 330
QY 301 GAAAGTTAAAGCTAAATCAGAGAGAGGCTCCCTGAAGTTGAGAGTACTACTGTT 360
Db 331 GAAAGTTAAAGCTAAATCAGAGAGAGGCTCCCTGAAGTTGAGAGTACTACTGTT 390
QY 361 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATATATGCCACAGGAGCAAGAGAGGAT 420
Db 391 GAGGCTCTGAGAGATCTTCAAGAAACCCAGAAATATATGCCACAGGAGCAAGAGAGGAT 450
QY 421 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCTGGCCCGGAGTGTCCCAAGCTTCC 480
Db 451 GACCAAGATCATTTGGGCTATGAGAGGAGCCGCGCTGGCCCGGAGTGTCCCAAGCTTCC 510
QY 481 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGCGC 540
Db 511 GCGGCGCGCTTCAAGTCCCGGCTGATATCCGCGCCAGCTGCGCGCTTCTGCGCGGCGC 570
QY 541 CTGCGCGCGCTTCAAGTCCCGGCTTCAAGTCCCGGCTTCTGCGCGGCGCTTCTGCGCGC 600
Db 571 CTGCGCGCGCTTCAAGTCCCGGCTTCAAGTCCCGGCTTCTGCGCGGCGCTTCTGCGCGC 630
QY 601 AACCAATGAGCAGATGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGTCTGAGTCCC 660
Db 631 AACCAATGAGCAGATGTGCAACTGACCTGCTCTGAGGCTAGAGATGAGTCTGAGTCCC 690

QY 661 GGGCGGAGTACCGGCTCTGACGCTGCACTGCGGGGGCTGAGAGTGTCCGGGC 720
DB 691 GGGCGGAGTACCGGCTCTGACGCTGCACTGCGGGGGCTGAGAGTGTCCGGGC 750
QY 721 TCGAGACACACTGTGGAGAGCCAGCTTCCCTGCGAGATCCAGTGTTCACCTCAGC 780
DB 751 TCGAGACACACTGTGGAGAGCCAGCTTCCCTGCGAGATCCAGTGTTCACCTCAGC 810
QY 781 ACCGCTTTTGGCAGAGTTGACGAGGCTTGGGGGCGCCGGAGAGCCGTGGCTTTGGCC 840
DB 811 ACCGCTTTTGGCAGAGTTGACGAGGCTTGGGGGCGCCGGAGAGCCGTGGCTTTGGCC 869
QY 841 GCGTTTCTGAGAGAGGCGCCCGAAGAAACAGTGCCTATGACAGTGTGTCTGCTGG 900
DB 870 GCGTTTCTGAGAGAGGCGCCCGAAG-AAACAGTGCCTATGACAGTGTGTCTGCTGG 928
QY 901 GAAGAATCGCTGAGAGAGCTCAGAGACTCAGTCCAGAGCTGAGACATATCTGCACTC 960
DB 929 GAA-RAATGCTGAGAGAA-GCTCAGAGACTCAGAGKCCAGAGCTGAGACAAAT-TGCACTC 985
QY 961 CTGCC 965
DB 986 CTGCC 990

RESULT 8
LOCUS BX423970 916 bp mRNA linear EST 03-MAY-2004
DEFINITION BX423970 Homo sapiens NEUROBLASTOMA Homo sapiens cDNA clone
CS0DA003YB12 5-PRIME, mRNA sequence.
ACCESSION BX423970
VERSION BX423970.2 GI:46955310
KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 916)
Li, W.B., Gruber, C., Jesse, J., and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On May 15, 2003 this sequence version replaced gi:30766328.
COMMENT
Contact: Genoscope - Centre National de Sequencage
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France
Email: seque@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library
was not normalized. Library was constructed by life technologies, a
division of invitrogen.
This sequence belongs to sequence cluster 5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?c=CS1DA001ZF099Plc=5300.f.
FEATURES
Source
Location/Qualifiers
1. 916
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DA003YB12"
/issue_type="NEUROBLASTOMA"
/clone_lib="Homo sapiens NEUROBLASTOMA"
/notes="Vector: pCMVSPORT 6; 1st strand cDNA was primed
with a NotI-oligo(dT) primer. Five prime end enriched,
double-strand cDNA was digested with Not I and cloned into
the Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."

ORIGIN
Query Match 58.6%; Score 891.4; DB 5; Length 916;
Best Local Similarity 96.4%; Pred. No. 1.9e-213;
Matches 883; Conservative 23; Mismatches 10; Indels 0; Gaps 0;

QY 9 CGGATGAGTCCCGGTCGAGCCCGAGCCCTGAGCTCCCTGTTGATCCCGGCGCTGCTCC 68
DB 1 CGGATGAGTCCCGGTCGAGCCCGAGCCCTGAGCTCCCTGTTGATCCCGGCGCTGCTCC 60
QY 69 AGGCTCACTGTGCAACTGTGCTGTCACTGTGCTGTGATGCTGTTCATCCCAAG 128
DB 61 AGGCTCACTGTGCAACTGTGCTGTCACTGTGCTGTGATGCTGTTCATCCCAAG 120
QY 129 GTTGCCCGGATGCAAGAGATTTCCCTTTGGAGAGAGGCTCTTGTGGGAAAGATGACC 188
DB 121 GTTGCCCGGATGCAAGAGATTTCCCTTTGGAGAGAGGCTCTTGTGGGAAAGATGACC 180
QY 189 ACTGGGAGAGAGATGCGCCAGATGAGAGAGATTCACCCAGAGAGAGATCCACCCG 248
DB 181 ACTGGGAGAGAGATGCGCCAGATGAGAGAGATTCACCCAGAGAGAGATCCACCCG 240
QY 249 AGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAAGTTAA 308
DB 241 AGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAGAGAGAGATCTACCTGAAGTTAA 300
QY 309 GCTTAATCAGAAAGAGGCTCCCTGAGATGAGATCTACCTGAGAGAGATCTACCTGAG 368
DB 301 GCTTAATCAGAAAGAGGCTCCCTGAGATGAGATCTACCTGAGAGAGATCTACCTGAG 360
QY 369 TGGAGATCTCAGAAAGAGGCTCCCTGAGATGAGATCTACCTGAGAGAGATCTACCTGAG 428
DB 361 TGGAGATCTCAGAAAGAGGCTCCCTGAGATGAGATCTACCTGAGAGAGATCTACCTGAG 420
QY 429 TCATTGGGCTATGAG 488
DB 421 TCATTGGGCTATGAG 480
QY 489 CTTCAGATCCCGGCTGAGATATCCCGCCAGCTGAGAGAGAGAGAGAGAGAGAGAGAG 548
DB 481 CTTCAGATCCCGGCTGAGATATCCCGCCAGCTGAGAGAGAGAGAGAGAGAGAGAGAG 540
QY 549 CCTGAGATCCCGGCTGAGATATCCCGCCAGCTGAGAGAGAGAGAGAGAGAGAGAGAG 608
DB 541 CCTGAGATCCCGGCTGAGATATCCCGCCAGCTGAGAGAGAGAGAGAGAGAGAGAGAG 600
QY 609 CCACAGTGTGCAACTGAG 668
DB 601 CCACAGTGTGCAACTGAG 660
QY 669 GTACCGGCTGTGCACTGTGCACTGTGCACTGTGCACTGTGCACTGTGCACTGTGCACT 728
DB 661 GTACCGGCTGTGCACTGTGCACTGTGCACTGTGCACTGTGCACTGTGCACTGTGCACT 720
QY 729 CACTGTGAG 788
DB 721 CACTGTGAG 780
QY 789 TGCAGAGTTGACGAG 848
DB 781 TGCAGAGTTGACGAG 840
QY 849 GAG 908
DB 841 GAG 900
QY 909 CGCTGAG 924
DB 901 CGCTGAG 916

RESULT 9
LOCUS AL554665/1 1071 bp mRNA linear EST 30-MAR-2004
DEFINITION AL554665 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
clone CS01085YF18 3-PRIME, mRNA sequence.
ACCESSION AL554665
VERSION AL554665.3 GI:45859416
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS Li, W.-B., Gruber, C., Jessee, J. and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On Feb 15, 2001 this sequence version replaced gi:31276475.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: segref@genoscope.cns.fr, Web: www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?c=CS0D1085D09NP1ec=5300.f.
FEATURES
source
1..1071
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0D1085YPI8"
/isue_type="PLACENTA COT 25-NORMALIZED"
/clone_11b="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."
ORIGIN
Query Match 56.6%; Score 861.6; DB 1; Length 1071;
Beet Local Similarity 93.6%; Pred. No. 6.4e-206;
Matches 1003; Conservative 21; Mismatches 31; Indels 17; Gaps 12;
QY 451 CCGCCCTGGCCCGGGGTGTCCTCCAGCTGCGCGGCGCTTCCAGTCCCGGCTGATATC 510
DB 1066 CCGCCCTGGCCCGGGGTGTCCTCCAGCTGCGCGGCGCTTCCAGTCCCGGCTGATATC 1009
QY 511 CGCCCTGGCCCGGGGTGTCCTCCAGCTGCGCGGCGCTTCCAGTCCCGGCTGATATC 570
DB 1008 CGCCCTGGCCCGGGGTGTCCTCCAGCTGCGCGGCGCTTCCAGTCCCGGCTGATATC 953
QY 571 CTCCGCGCGCTCCAGAGCTGCGCGCTGCGCGGCGCTTCCAGTCCCGGCTGATATC 630
DB 953 CTCGCGCGCTCCAGAGCTGCGCGCTGCGCGGCGCTTCCAGTCCCGGCTGATATC 894
QY 631 CCTCTGGGCTAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 690
DB 893 CCTCTGGGCTAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 834
QY 691 CTGCACTGGGGGGCTGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 750
DB 833 CTGMACTGGGGGGCTGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 774
QY 751 CTGCGCGAGATCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 810
DB 773 CTGCGCGAGATCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 714
QY 811 GGGCGCGCGGAGGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 870
DB 713 GGGCGCGCGGAGGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 654
QY 871 AGTGCCTTAGAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 930
DB 653 AGTGCCTTAGAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 594
QY 931 CAGGTCCAGAGACT--GACATATCTGCACTCT--GCCCTGACTTTCAGCCG--CTACTT 986

DB 593 CAGGTCCAGAGACTCTGCTGCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 534
QY 987 CCAATATGAGGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1046
DB 533 CCAATATGAGGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 474
QY 1047 TAAACGAGCAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1106
DB 473 TAAACGAGCAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 414
QY 1107 ACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1166
DB 413 ACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 354
QY 1167 GATTAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1226
DB 353 GATTAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 294
QY 1227 GCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1286
DB 293 GCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 234
QY 1287 TGTCAACGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1346
DB 233 TGTCAACGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 174
QY 1347 GGTGTGAGCTACCGCCCGAGAGAGTACCGAGAGTGAAGC--CTAGAGCTGATATC 1403
DB 173 GGTGTGAGCTACCGCCCGAGAGAGTACCGAGAGTGAAGC--CTAGAGCTGATATC 114
QY 1404 TGAAGATGTGGAAG--CCAGCCAGAGCATCTGAGGGGAGAGCCGCTGCTGCTGCTGCT 1461
DB 113 TGAAGATGTGGAAGAGACAGCCAGAGCATCTGAGGGGAGAGCCGCTGCTGCTGCTGCT 54
QY 1462 GTGCTCATTTAG--CCACTCTCTTTTACTGCCAAGAAATTTTAAATTA 1512
DB 53 GTGCTCATTTAG--CCACTCTCTTTTACTGCCAAGAAATTTTAAATTA 2
RESULT 10
BX401186 1017 bp mRNA linear EST 29-APR-2004
LOCUS BX401186 Homo sapiens HELA CELLS COT 25-NORMALIZED Homo sapiens
DEFINITION cDNA clone CS0DK009YD10 5-PRIME, mRNA sequence.
ACCESSION BX401186
VERSION BX401186.2 GI:46876709
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS Li, W.-B., Gruber, C., Jessee, J. and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On May 13, 2003 this sequence version replaced gi:30626393.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: segref@genoscope.cns.fr, Web: www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?c=CS0DK009H05QPIec=5300.f.
FEATURES
source
1..1017
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"

```

/clone="CS0DK009YPI0"
/cell_type="HELA CBLLS COT 25-NORMALIZED"
/cell_line="HELA"
/clone_lib="Homo sapiens HELA CBLLS COT 25-NORMALIZED"
/notes="1st strand cDNA was primed with a NotI-oligo (dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

```

ORIGIN

```

Query Match      54.7%; Score 832; DB 5; Length 1017;
Best Local Similarity 97.4%; Pred. No. 1.8e-198;
Matches 896; Conservative 3; Mismatches 13; Indels 8; Gaps 5;

QY      1 ACAGTCAGCCGATGAGTCTCCCTGTCGCCAGCCCTGCTCTCTGTTGATCCCGGCC 60
DB      2 ACAGTCAGCCGATGAGTCTCCCTGTCGCCAGCCCTGCTCTCTGTTGATCCCGGCC 60
QY      61 CCTGCTCCAGGCTCACTGTGCACTGTGCTGTCACTGTGCTGTCTGTGCTGTGCTCAT 120
DB      61 CCTGCTCCAGGCTCACTGTGCACTGTGCTGTCACTGTGCTGTCTGTGCTGTGCTCAT 120
QY      121 CCCCAAGAGTTCGCCGATGAGGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGGAA 180
DB      121 CCCCAAGAGTTCGCCGATGAGGAGATTCCTCCCTGAGAGAGGCTCTTCTGAGGAA 180
QY      181 GATGACCCCACTGGGCGAGAGAGATCTGCCCACTGAAGAGATTCACCCAGAGAGAGAT 240
DB      181 GATGACCCCACTGGGCGAGAGAGATCTGCCCACTGAAGAGATTCACCCAGAGAGAGAT 240
QY      241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGAGATCTACTCT 300
DB      241 CCACCCGAGAGAGAGATCTACCTGAGAGAGATCTACCTGAGAGAGAGATCTACTCT 300
QY      301 GAACTTAAAGCTTAATCAAGAAAGAGGCTCTCTGAAGTATGAGATCTACTCTGTT 360
DB      301 GAACTTAAAGCTTAATCAAGAAAGAGGCTCTCTGAAGTATGAGATCTACTCTGTT 360
QY      361 GAGGCTCTGAGAGATCTCTCAAGAACCCCAAGAAATTAATGCCACAGAGAGAGAGAT 420
DB      361 GAGGCTCTGAGAGATCTCTCAAGAACCCCAAGAAATTAATGCCACAGAGAGAGAT 420
QY      421 GACCAAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB      421 GACCAAGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
QY      481 GCGGCGCGCTTCAGTCCCGGTGAGATATCCGCGCCCAAGCTGCGCGCTTCTGCGCG 540
DB      481 GCGGCGCGCTTCAGTCCCGGTGAGATATCCGCGCCCAAGCTGCGCGCTTCTGCGCG 540
QY      541 CTGCGCGCGCTTGAACCTCTGAGGCTTCCAGCTTCCGCGCGCTTCCAGAACTGCGCTG 600
DB      541 CTGCGCGCGCTTGAACCTCTGAGGCTTCCAGCTTCCGCGCGCTTCCAGAACTGCGCTG 600
QY      601 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGAGCTGAGAGATCTGAGGCTTCC 660
DB      601 AACCAATGAGCAAGTGTGCACTGACCTGCTCTGAGCTGAGAGATCTGAGGCTTCC 660
QY      661 GGGCGGAGATACCGGCTCTGCAAGCTGATCTGCACTGGGCGGCTGCAAGTGTCTCG 720
DB      661 GGGCGGAGATACCGGCTCTGCAAGCTGATCTGCACTGGGCGGCTGCAAGTGTCTCG 720
QY      721 TCGAGACACACTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB      721 TCGAGACACACTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
QY      781 ACCGCTTTGCAAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB      781 ACCGCTTTGCAAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
QY      841 GCGCTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB      841 GCGCTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
QY      893 GCGCTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 950
DB      893 GCGCTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 950

```

```

QY      901 GAGCAAAATCGCTGAGAGAGAG 920
DB      894 GAGCAAAATCGCTGAGAGAGAG 913

```

```

RESULT 11
BX423969/c
LOCUS      BX423969 Homo sapiens NEUROBLASTOMA Homo sapiens cDNA clone
DEFINITION
ACCESSION  BX423969
VERSION    BX423969
KEYWORDS   EST.
SOURCE     EST.
ORGANISM   Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE  1 (bases 1 to 961)
AUTHORS   Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
TITLE     Full-length cDNA libraries and normalization
JOURNAL   Unpublished (2001)
COMMENT   On May 15, 2003 this sequence version replaced gi.30766327.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France
Email: seqref@genoscope.cns.fr, web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo (dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library
was not normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
This sequence belongs to sequence cluster 5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdnas/CS1DA001ZF09NP1&c=5300.f.
FEATURES
location/Qualifiers
1..961
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DA003YB12"
/issue_type="NEUROBLASTOMA"
/clone_lib="Homo sapiens NEUROBLASTOMA"
/notes="Vector: pCMVSPORT 6; 1st strand cDNA was primed
with a NotI-oligo (dT) primer. Five prime end enriched,
double-strand cDNA was digested with Not I and cloned into
the Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."

```

ORIGIN

```

Query Match      53.5%; Score 813.6; DB 5; Length 961;
Best Local Similarity 89.7%; Pred. No. 7.9e-194;
Matches 852; Conservative 24; Mismatches 71; Indels 3; Gaps 2;

QY      513 CCCCAGTGGCGGCTTCTGCGCGGCTTCCGCGCGCTTGGAACTCTGAGGCTTCCAGCT 572
DB      961 CCGCCCGGCTGCGGCTTCTGCGCGGCTTCCGCGCGCTTGGAACTCTGAGGCTTCCAGCT 572
QY      573 CCGCGCGCTTCCAGAACTGCGCGCTTCCGCGCGCTTCCGCGCGCTTCCGCGCGCTTCC 632
DB      903 CCGCGCGCTTCCAGAACTGCGCGCTTCCGCGCGCTTCCGCGCGCTTCCGCGCGCTTCC 632
QY      633 TCTGAGGCTTAAGATGAGTCTGAGGCTTCCGCGCGGAGTACCGGAGCTCTGAGCTGCACT 692
DB      844 TCTGAGGCTTAAGATGAGTCTGAGGCTTCCGCGCGGAGTACCGGAGCTCTGAGCTGCACT 692
QY      693 GCACTGGGCGGCTGAGGCTTCCGCGCGGCTTCCGCGCGGCTTCCGCGCGGCTTCCGCG 752
DB      784 GCACTGGGCGGCTGAGGCTTCCGCGCGGCTTCCGCGCGGCTTCCGCGCGGCTTCCGCG 752
QY      753 TCCGAGATTCAGTGTGTTCACTTCAAGACCGCTTTGCGAGAGTGAAGAGGCTTGGG 812
DB      724 TCCGAGATTCAGTGTGTTCACTTCAAGACCGCTTTGCGAGAGTGAAGAGGCTTGGG 812

```


QY 813 GGGCCGGGAGGCGCTGGCGGTGGCGCCCTTTTGTGAGAGGAGGCGGAGAGAAACAG 872
DB 664 GGGCCGGGAGGCGCTGGCGGTGGCGCCCTTTTGTGAGAGGAGGCGGAGAGAAACAG 605
QY 873 TGCCTATGAGCAGATTGCTGTCTCGCTGGAGAGAAATCGCTGAGAGAGGCTCAGAGACTCA 932
DB 604 TGCCTATGAGAGAGTGTCTGTCTCGCTGGAGAGAAATCGCTGAGAGAGGCTCAGAGACTCA 545
QY 933 GGTCCAGAGCAGTGAACATCTGCACTCTGCGCTCTGACTTCACTTCACTTCACTTCA 992
DB 544 GGTCCAGAGCAGTGAACATCTGCACTCTGCGCTCTGACTTCACTTCACTTCACTTCA 485
QY 993 TGAAGGGGTCTGATCAACACGCGCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1052
DB 484 TGAAGGGGTCTGATCAACACGCGCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 425
QY 1053 GACAGTGAATGCTGAGTGTAGCTAGCAGCTCCACACCTCTCTGACACCTCTGAGGAGGAG 1112
DB 424 AACAGTGAATGCTGAGTGTAGCTAGCAGCTCCACACCTCTCTGACACCTCTGAGGAGGAG 365
QY 1113 TGACTCTGGGCTACAGCTGAACTTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1172
DB 364 TAACTCTGGGCTACAGCTGAACTTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 305
QY 1173 GGGCCCTCTTCCCTGCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1232
DB 304 GGGCCCTCTTCCCTGCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 245
QY 1233 TTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1292
DB 244 TMCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 185
QY 1293 CAGCGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1352
DB 184 CAGCGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 125
QY 1353 GAGCTACCGGCGGCGGAG 1412
DB 124 GAGCTACCGGCGGCGGAG 65
QY 1413 TGAGAGAGCAGCAG 1462
DB 64 TGAGAGAGCAGCAG 15

RESULT 12
COS79387 971 bp mRNA linear EST 20-JUL-2004
LOCUS DEFINITION ILLUMIGEN MQ0.50239 Katze MMIL Macaca mulatta cDNA clone
IBIW:17608 5' similar to Bases 6 to 971 highly similar to human
CA9 (Hb.63287), mRNA sequence.
ACCESSION COS79387
VERSION COS79387.1 GI:50410317
KEYWORDS EST:
SOURCE Macaca mulatta (rhesus monkey)
ORGANISM Macaca mulatta
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
Cercopitheciinae; Macaca.
REFERENCE 1 (bases 1 to 971)
AUTHORS Katze, M.G., Thomas, M., Korth, M., Iadonato, S.P. and Magness, C.L.
TITLE Large-scale Rhesus Macaque cDNA Sequencing
JOURNAL Unpublished (2003)
COMMENT Contact: C. Magness
Illumigen Biosciences Inc.
2203 Airport Way S, Suite 450, Seattle, WA 98134, USA
Tel: 2063780400
Fax: 2063780408
Email: cmagness@illumigen.com
Sequenced on 2004.07.15. 725 Q20 bases. Library Preparation: Prof.
Michael Katze lab at University of Washington DNA Sequencing:
Illumigen Biosciences Inc. For further information, see

http://www.macaque.org
PCR Primers
FORWARD: CCTCCTAATGAGGAGACAAA
BACKWARD: CACTATAGGGCGAATTGGCTA
Insert Length: 971 Std Error: 0.00
Plate: CL000413 row: A column: 10
Seq primer: CCTCCTAATGAGGAGACAAA
POLYA=No.

FEATURES
source
location/Qualifiers
1..971
/organism="Macaca mulatta"
/mol_type="mRNA"
/strain="Indian"
/db_xref="taxon:9544"
/clone="IBIW:17608"
/sex="male"
/dev_stage="adult"
/lab_host="Electromax DH10B"
/clone="11b="Katze_MMIL"
/note="Organ: ileum; Vector: pDONR 222; Site 1: Bact 1;
Site 2: Bact 1; Created from Cloneminer cDNA library
Construction kit (catalog #18249-029)"

ORIGIN
Query Match 52.4%; Score 797; DB 7; Length 971;
Best Local Similarity 93.0%; Pred. No. 1.2e-189;
Matches 890; Conservative 0; Mismatches 60; Indels 7; Gaps 5;

QY 212 GTGAGAGAGATTACCCAGAGAGAGAGATTCACCCGAGAGAGAGATCTACTGAGAGG 271
DB 4 GGGAGAGATGACCACTGATGAGAGAGATCTGCCAGTGAAGAGATCCACCCAGAGAGG 63
QY 272 AGGATCTACCTGAGAGAGAGATCTACCTGAAGTTAAGCTTAATCAGAGAGAGGCT 331
DB 64 AGGATCTACCCAGAGAGAGAGATCTACCTGAAGTTAAGCTTAATCAGAGAGAGGCT 123
QY 332 CCTGAAGTTAGAGAGATCTACCTGTTAGAGGCTCTGAGAGATCTCAAGAACCCAGAG 391
DB 124 CCTGAAGTTAGAGAGATCTACCTGTTAGAGGCTCTGAGAGATCTCAAGAACCCAGAG 183
QY 392 ATATATGCCACAGGAGACAAAGAGAGATGACAGAGTCAATTTGGCTATGAGAGGCGAC 451
DB 184 ATATATGCCACAGGAGACAAAGAGAGATGACAGAGTCAATTTGGCTATGAGAGGCGAC 243
QY 452 CGCCCTGGCCCGGGGTGTCCTCAGAGCTGCGCGGCGGCTTCCAGTCCCGGGTGTATTC 511
DB 244 CGCCCTGGCCCGGGGTGTCCTCAGAGCTGCGCGGCGGCTTCCAGTCCCGGGTGTATTC 303
QY 512 GCCCCAGCTGCGGCTTTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTTTCGAGC 571
DB 304 GCCCCAGCTGCGGCTTTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTTTCGAGC 363
QY 572 TCCCGCGGCTCCAGAGCTGCGCTGCGGCAACATGAGGCGACAGTGTGACACTGACCTGAC 631
DB 364 TCCCGGCTGCGGCAACATGAGGCTGCGGCAACATGAGGCGACAGTGTGACACTGACCTGAC 423
QY 632 CTCCTGGCTGAGAGATGCTCTGGGTTCCCGGCGGAGATCCGGGCTCTGCACTGCACTC 691
DB 424 CTCCTGGCTGAGAGATGCTCTGGGTTCCCGGCGGAGATCCGGGCTCTGCACTGCACTC 483
QY 692 TGCACCTGGGGGCTGACAGGTGCTCGGGCTGGAGACACATGTGAGAGGCGACCGTTTC 751
DB 484 TGCACCTGGGGGCTGACAGGTGCTCGGGCTGGAGACACATGTGAGAGGCGACCGTTTC 543
QY 752 CTGCCAGATCCAGCTGTGTTCACTCAGACCGCTTTCAGAGTTGACAGAGGCTTGG 811
DB 544 CTGCCAGATCCAGCTGTGTTCACTCAGACCGCTTTCAGAGTTGACAGAGGCTTGG 603
QY 812 GGGCG-CCGGAGAGGCTTGGCGGTGTTGGCGGCTTTCAGAGAGGCGGCGGAGAGAAC 870
DB 604 GGGCGCGCCCGAGGCGCTGGCGGTGTTGGCGGCTTTCAGAGAGGCGGCGGAGAGAAC 663
QY 871 AGTGCTATGAGCAATTCGTGCTTGGAGAGAAATCGCTGAGAGAGGCTCAGAGACT 930

Db	664	AGTGCCTATGAGCAGATTGCTGTCCTACATTGGAAAGAAATCGCTGAGGAAGGCTCAGAGACT	723
Qy	931	CAGGTCCCAAGGACATGGACATATCTGCATCTCCGCGCCTGATCTTACGCGCGTACATCCAA	990
Db	724	CAGTCCCAAGGACTGGACGTATCTGACATCTCGCCCTCTGACCTCAGCGCGTACTTCCGA	783
Qy	991	TATGAGGGGTCTTGACTTACACCGCCCTGTGCGCGAGGGTGCATCT--GAACTGTGTTTAA	1045
Db	784	TATGAGGGGTCTTGACTTACACCGCGCCTGTGCGCGAGGGTGCATCTTGAGGACATGTGTTTAA	843
Qy	1050	CCAGCAGTGAATGCTGAGTGCCTAAAGCAGCTCCACACCTCTCTGACACCT--GTGGGGAG	1108
Db	844	CCAGCAGTGAATGCTGAGTGCCTAAACACTCCACCCCTCTCTGAAAGCCTGGGGGGGAG	903
Qy	1109	CTGTGTGATCT--CGGCTACAGCTGAATCTCC--GAGGAGCGCAACCTTTGAATGGG	1161
Db	904	CTGGGGATCTCCCGGCTACGGCTGAATCTTTCCGAAGGAGACCCACCTCTTGAAATGGG	960

RESULT	13
AL577748/c	
LOCUS	AL577748 994 bp mRNA linear EST 07-APR-2004
DEFINITION	AL577748 Homo sapiens HELA CELLS COT 25-NORMALIZED Homo sapiens
ACCESSION	CDNA clone CS0DK007YK10 3-PRIME, mRNA sequence.
VERSION	AL577748
KEYWORDS	AL577748.3 GI:46256749
SOURCE	EST.
ORGANISM	Homo sapiens (human)
	Homo sapiens
	Homo sapiens

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 994)	Li, W.B., Gruber, C., Jesssee, J., and Polayes, D.	Full-length cDNA libraries and normalization	Unpublished (2001)	On Feb 16, 2001 this sequence version replaced gi:31316001.

Contact: Genoscope
Genoscope - Centre National de Séquençage
BP 191 91006 Evry cedex - France
Email: segeret@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five primer
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.F
For more information about this cluster, see
<http://www.genoscope.cns.fr/cdna?b=CS0DK007/BF05NP1&c=5300.F>.

```

source
1. .994
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODK007YK10"
/cell_type="HELA"
/cell_line="HELA CELLS COT 25-NORMALIZED"
/clone_lib="Homo sapiens HELA CELLS COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo (dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

```

	Only Match	52.2%	Score 794.4	DB 1	Length 994
	Best Local Similarity	86.3%	Pred. No. 5,56-189		
	Matches	852	Conservative 46	Mismatches 68	Indels 5
					Gaps 4
Oy	521	TCGCGGCTTTCTGTCGCGGACCTCGGCGCCCTCGAGAACTCTTGAGCTCTCGAGCGCC			580
Db	985	TCGCGCCCGGCTCCCTCTTTCGCGCCGCTCGCCCTCGCAATTCCTCGGCTGCTCCGCTCCCGC			926
Oy	581	TCGCGAAGCTCGGCTCGCGCAACATGGCGCAAGTGTGCAACTGACCTCTGCGCTCTCGGCGC			640

Db		925	CTYCGMGNVACTCTCTCKKMAACAAGGCCACA-KGTGCMAYTGMCCVTSCTGCVKGGGC	867
Qy		641	TAGAGATGGCTCTGGGCTCCGGGGGGGAGTACGGGGCTTGTGAGCTGCATCT-GCATCGG	699
Db		866	KAGAGATGGCTCTGGGCTCCGGGGGGGAGTACGGGGCTTGTGAGCTGCATCTGCACKGG	807
Qy		700	GGGGCTGAGGTCGTCGGGGGCTCGAGACACTGTGGAAAGGCACCGTTCCCTTCGACG	759
Db		806	GGAGCTGAGGKCTCCKGGSTCGAGACAATGGGGGAAGGCCACCGGTGCCCGGCGAG	747
Qy		760	ATCCACGTGGTTCACCTCAGCACCGCCTTTGCGAGATTGAAGAGCCCTTGGGGGCCCG	819
Db		746	ATCCAGGGGGTCKACTCAGCACCGCCTTTGCGAGATTGAAGAGGCC-TGGGGGCCCG	688
Qy		820	GGAGGCTGTGGCTGTGGCCGCTTTCTGAGAGAGGGCCCGGAAGAAAACAGTGCCTAT	879
Db		687	GGAGCCCTGGCGGTGTGGCCGCTTCTGTGAGAGAGGGCCCGGAAGAAAACAGGGCTAT	628
Qy		880	GAGAGTGTGTCTCTCGTTGGAAGAAATGCTGAGGAAGGCTGAGAGCTCAGGTCCCA	939
Db		627	GAGAGTGTGTCTCTCGTTGGAAGAAATGCTGAGGAAGGCTCAGAGACTCAGGTCCCA	568
Qy		940	GGACTGACATATCTGCACTCTTCGCTCTGACTTACGCGGCTACTTTCOAATATGAGGGG	999
Db		567	GNACTGACATATCTGCACTCTCTCTCTTACTTTCANCCACTCTHCCAAHAATGAGGGG	508
Qy		1000	TCTGTGACTACACGGCCCTGTGGCCAGAGGTGATCATGTGATTAAACAAGACTTG	1055
Db		507	TCTGTGACTACACGGCCCTGTGGCCAGAGGTGATCATGTGATTAAACAAGACTTG	448
Qy		1060	ATGTGAGTGTGTAAGACAGCTCCACACCCCTCTGTGACACCTGTGGGGGACCTGTGACTCT	1119
Db		447	ATGTGAGTGTGTAAGACAGCTCCACACCCCTCTGTGACACCTGTGGGGGACCTGTGACTCT	388
Qy		1120	CGGCTACAGCTGAACCTTCCAGGCAACGACGCTTTGTAATGGGCGAGTATTTGAGGCTTC	1179
Db		387	CGGCTACAGCTGAACCTTCCAGGCAACGACGCTTTGTAATGGGCGAGTATTTGAGGCTTC	328
Qy		1180	TTCCCTGTGGAGTGAACAAGACAGCTCTCGGGCTGTGAGCAGTCCAGCTGAATTCTCTGC	1239
Db		327	TTCCCTGTGGAGTGAACAAGACAGCTCTCGGGCTGTGAGCAGTCCAGCTGAATTCTCTGC	268
Qy		1240	CTGGCTGTGTGACATCTTAGCCCTGTGTTTGGCTCTTTTGTGTGACACAGCGTC	1299
Db		267	CTKCTGTGTGTGACATCTTAGCCCTGTGTTTGGCTCTTTTGTGTGACACAGCGTC	208
Qy		1300	GGCTTCTTGTGCAATGAGAAAGGCACACAAGAAAGGGGAACCAAAAGGGGTGTGACTAC	1355
Db		207	GGCTTCTTGTGCAATGAGAAAGGCACACAAGAAAGGGGAACCAAAAGGGGTGTGACTAC	148
Qy		1360	CGCCCAACAGAGTAGCCGAGACTGAGAGCTTGAAGCTGTGATCTTTGAGAAATGTGAGAAG	1419
Db		147	CGCCCAACAGAGTAGCCGAGACTGAGAGCTTGAAGCTGTGATCTTTGAGAAATGTGAGAAG	88
Qy		1420	CAAGCCAGAGGCACTGTAGAGGGGGAGCCGATACGTGTCTGTCTCAATTATGCA--C	1477
Db		87	CAAGCCAGAGGCACTGTAGAGGGGGAGCCVNTAATGMCCTGHCWGCGNNANNNNNNNNNC	28
Qy		1478	TTCTTTTAATGCGCAAGAAATTTT	1504
Db		27	TCATATTTAATGCGCMMNDTNTTTT	1

RESULT 14	AL580216/c
LOCUS	AL580216
DEFINITION	1017 bp mRNA linear EST 07-APR-2004
ACCESSION	U580216 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED
VERSION	Homo sapiens cDNA clone CS0D0051K14 3-PRIME, mRNA sequence.
KEYWORDS	AL580216 GI:31318495
SOURCE	EST.
	Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 1017)
AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polyes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On Feb 16, 2001 this sequence version replaced gi:12946023.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by life technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?c=CS0DJ005BF07NP1&c=5300.f.
FEATURES
source
1..1017
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DJ005YK14"
/cell_type="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/cell_line="JURKAT"
/clone_1lb="Homo sapiens T CELLS (JURKAT CELL LINE) COT
10-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Query Match 51.9%; Score 789.4; DB 1; Length 1017;
Best Local Similarity 87.9%; Pred. No. 1e-187;
Matches 832; Conservative 44; Mismatches 66; Indels 4; Gaps 3;
545 GCCCCTGGAACTCTCTGGGCTCCAGCTCCCGCTCCCAAGATGCGCTCGCAACA 604
943 GGGCCCTGAACTCTCTGGGCTCCAGCTCCCGCTCCCAAGATGCGCTCGCAACA 886
605 ATGGCACTGTGAAAGGCCACCGCTTCCCTGCGGAGATGAGTCTGCTGCTCCGG 663
885 ATGGCACTGTGAAAGGCCACCGCTTCCCTGCGGAGATGAGTCTGCTGCTCCGG 826
664 CGGAGTACCGGCTCTGCAAGCTGCACTGAGGAGGCTGAGTCTGCTGCTCCGG 723
825 CGGAGTACCGGCTCTGCAAGCTGCACTGAGGAGGCTGAGTCTGCTGCTCCGG 766
744 GAGCACTGTGAAAGGCCACCGCTTCCCTGCGGAGATGAGTCTGCTGCTCCGG 783
765 GAGCACTGTGAAAGGCCACCGCTTCCCTGCGGAGATGAGTCTGCTGCTCCGG 706
784 GCTTTCGCAAGTGAAGAGGCTTGGGGCGCCCGGAGGCTGCTGCTGCTGCTCCGG 843
705 VCGAACCACGAGTGAAGAGGCTTGGGGCGCCCGGAGGCTGCTGCTGCTGCTCCGG 646
844 TTTCTGAGAGAGGCGCCCGAAGAAACAGTGTGCTATGAGCACTGCTGCTGCTGGA 903
645 TTTCTGAGAGAGGCGCCCGAAGAAACAGTGTGCTATGAGCACTGCTGCTGCTGGA 586
904 GAAATCGTGAAGAGGCTCAGAGACTCAGTCCCGAAGCTGAGACATATCTGACTCTG 963
585 GAAATCGTGAAGAGGCTCAGAGACTCAGTCCCGAAGCTGAGACATATCTGACTCTG 526
964 CCCTGACTTGAAGAGGCTCAGAGACTCAGTCCCGAAGCTGAGACATATCTGACTCTG 1023
526 CCCTGACTTGAAGAGGCTCAGAGACTCAGTCCCGAAGCTGAGACATATCTGACTCTG 466
1024 CAGGCTGATCTGAGCTGTGTTAAACGAGATGATGCTGTAAGAGCTCCAC 1083

Db 465 CAGGCTGATCTGAGCTGTGTTAAACGAGATGATGCTGTAAGAGCTCCAC 406
Qy 1084 ACCCTCTGAAACCTGTGGGAGCTGTGACTCTCGGCTACAGTGAATCTTCGAGG 1143
Db 405 ACCCTCTGAAACCTGTGGGAGCTGTGACTCTCGGCTACAGTGAATCTTCGAGG 346
Qy 1144 AGCAGCTTTGAATGGGAGTGAATGAGGCTCTCTCTCTGCTGAGATGAGACAGT 1203
Db 345 AGCAGCTTTGAATGGGAGTGAATGAGGCTCTCTCTCTGCTGAGATGAGACAGT 286
Qy 1204 CTTGCGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTG 1263
Db 285 CTTGCGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTG 226
Qy 1266 CTTGCGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTG 1323
Db 225 CTTGCGGCTGTGAGCCAGTCCAGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTG 166
Qy 1324 CAGCAGAGAGGAGGAGCAACAAAGGGGCTGAGCTACCGCCAGAGAGTACCGAGT 1383
Db 165 CAGCAGAGAGGAGGAGCAACAAAGGGGCTGAGCTACCGCCAGAGAGTACCGAGT 107
Qy 1384 GAGCCTGAGAGCTGATCTTGAAGATGTGAAGAACCAAGAGGATCTGAGAGGAG 1443
Db 106 GAGCCTGAGAGCTGATCTTGAAGATGTGAAGAACCAAGAGGATCTGAGAGGAG 47
Qy 1444 GCGGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1489
Db 46 GCGGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1

RESULT 15
AL555184
LOCUS 927 bp mRNA linear EST 30-MAR-2004
DEFINITION AL555184 Homo sapiens HELA CELLS COT 25-NORMALIZED Homo sapiens
ACCESSION CDNA clone CS0DK007YK10 5-PRIME, mRNA sequence.
VERSION AL555184
KEYWORDS GI:45859924
EST.
ORGANISM Homo sapiens (human)
SOURCE Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 927)
AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polyes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On Feb 15, 2001 this sequence version replaced gi:31276993.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by life technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5300.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?c=CS0DK007BF05Q1&c=5300.f.
FEATURES
source
1..927
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DK007YK10"
/cell_type="HELA CELLS COT 25-NORMALIZED"
/cell_line="HELA"
/clone_1lb="Homo sapiens HELA CELLS COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN

Sites of the PCMVSPORT 6 vector. Library was normalized."

Query Match 50.8%; Score 772.6; DB 1; Length 927;

Best Local Similarity 96.0%; Pred. No. 1.7e-183;

Matches 840; Conservative 5; Mismatches 24; Indels 6; Gaps 5;

QY 1 ACAGTACGCGGATGAGTCTCCCTGTCGCGGAGCCCTGAGCTCCCTGTTGATCCGAGC 60
 DB 20 ACAGTACGCGGATGAGTCTCCCTGTCGCGGAGCCCTGAGCTCCCTGTTGATCCGAGC 78
 QY 61 CCTGCTCAGGCTCAGTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
 DB 79 CCTGCTCAGGCTCAGTGTGCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 138
 QY 121 CCCCAGAGGTTGCCCCGATGAGAGGATTCCTCCCTTGGAGAGAGGCTCTTCTGGGAA 180
 DB 139 CCCCAGAGGTTGCCCCGATGAGAGGATTCCTCCCTTGGAGAGAGGCTCTTCTGGGAA 198
 QY 181 GATGACCCAGTGGGCGAGAGGATTCGCCAGTGAAGAGATTCACCAGAGAGAGAT 240
 DB 199 GATGACCCAGTGGGCGAGAGGATTCGCCAGTGAAGAGATTCACCAGAGAGAGAT 258
 QY 241 CCAACCCGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTACT 300
 DB 259 CCAACCCGAGAGAGATCTACTGAGAGAGAGATCTACTGAGAGAGAGATCTACT 318
 QY 301 GAAATTAAAGCTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGATCTACTGTT 360
 DB 319 GAAATTAAAGCTTAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGATCTACTGTT 378
 QY 361 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 420
 DB 379 GAGGCTCTGAGAGATCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 438
 QY 421 GACCAAGTCAATTTGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 480
 DB 439 GACCAAGTCAATTTGGCGCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 498
 QY 481 GCGGCGCGCTTCCAGTCCCGGTGAGATCCCGCCGAGCTGCGGCTTCTGCGCGGCGC 540
 DB 499 GCGGCGCGCTTCCAGTCCCGGTGAGATCCCGCCGAGCTGCGGCTTCTGCGCGGCGC 558
 QY 541 CTGCGCGCGCTTCCAGTCCCGGTGAGATCCCGCGGCTTCCAGAGCTGCGGCTGCGC 600
 DB 559 CTGCGCGCGCTTCCAGTCCCGGTGAGATCCCGCGGCTTCCAGAGCTGCGGCTGCGC 618
 QY 601 AACCAATGGCAAGTGTGCACTGACCTGCTCTGAGAGATGAGTGTGAGTGTGAGTGTG 660
 DB 619 AACCAATGGCAAGTGTGCACTGACCTGCTCTGAGAGATGAGTGTGAGTGTGAGTGTG 678
 QY 661 GGGCGGAGATCCGGGCTTGCAGCTGCACTGCACTGCGGGGCTGCAAGTGTGCGGG 719
 DB 679 GGGCGGAGATCCGGGCTTGCAGCTGCACTGCACTGCGGGGCTGCAAGTGTGCGGG 738
 QY 720 CTGAGAGCACTGTGAG 779
 DB 739 CTGAGAGCACTGTGAG 797
 QY 780 CACCGGCTTTGCGAG 839
 DB 798 CACCGGCTTTGCGAG 854
 QY 840 CGCCTTTCTGAG 874
 DB 855 GCCTTTGAG 889